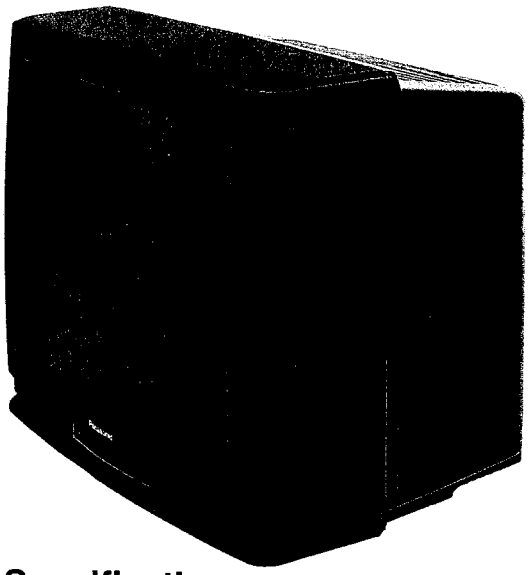
ORDER NO. SM–93026

Service Manual



Colour Television

TX–29A3E
TX–25A3E
EURO–1 Chassis

Specifications

(Information in brackets refer to TX–25A3E)

Power Source : 230 V AC, 50Hz

Power Consumption : 115W (105W)

Aerial Impedance : 75Ω unbalanced, Coaxial Type

Receiving System : PAL– B,G

Receiving Channels :

VHF E2 – E12	VHF H1 – H2 (ITALY)
VHF A – H (ITALY)	UHF E21 – E69
CATV (S01 – S05)	CATV S1 – S10 (M1–M10)
CATV S11 – S20 (U1–U10)	CATV S21 – S41 (HYPERBAND)

Intermediate Frequency :

Video	38.9 MHz
Sound	33.4 MHz
Colour	34.47 MHz (PAL)

Video / Audio Terminals :

AV1 IN	Video (21 pin)	1 Vp–p 75Ω
	Audio (21 pin)	500mV rms,10kΩ
	RGB (21 pin)	
AV1 OUT	Video (21 pin)	1 Vp–p 75Ω
	Audio (21 pin)	500mV rms, 1kΩ
AV2 IN	Video (21 pin)	1 Vp–p 75Ω
	Audio (21 pin)	500mV rms,10 kΩ
	S–Video IN (21 pin)	Y : 1 Vp–p 75Ω C : 0.3 Vp–p 75Ω
AV2 OUT	Video (21 pin)	1 Vp–p 75Ω
	Audio (21 pin)	500mV rms,10 kΩ
	Selectable output (21pin)	
AV3 IN	S–Video IN (4–pin)	Y : 1 Vp–p 75Ω C : 0.3 Vp–p 75Ω
	Audio (RCA x 2)	500mV rms,10kΩ
AV4 IN	S–Video IN (4–pin)	Y : 1 Vp–p 75Ω C : 0.3 Vp–p 75Ω
	Audio (RCA x 2)	500mV rms,10kΩ
	Video (RCA x 1)	1 Vp–p 75Ω

High Voltage : 29.7kV (29.0 kV) at zero beam current

Picture Tube : 72cm 68cmV (63cm 59 cmV) Super Flat FST 110° measured diagonally.

Audio Output :

Internal Speaker	2 x 10 W (Music Power) 8Ω Impedance
External Speaker	2 x 20 W (Music Power) 4 – 8Ω Impedance
Speakers	2 x 9cm round (Woofer) 2 x 4cm x 7cm oval (Tweeter)
Headphones	1 x 8 Ω Impedance

Accessories supplied : Remote Control
UM3 Battery

Dimensions : Height : 558mm (509mm)
Width : 668mm (606mm)
Depth : 503mm (482mm)

Net Weight 41.5kg (31kg)

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

NOTE : This service manual should be used in conjunction with the EURO 1 service guide.

Panasonic

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Safety Precautions

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R–C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 31.0 kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials , connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k ohm 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

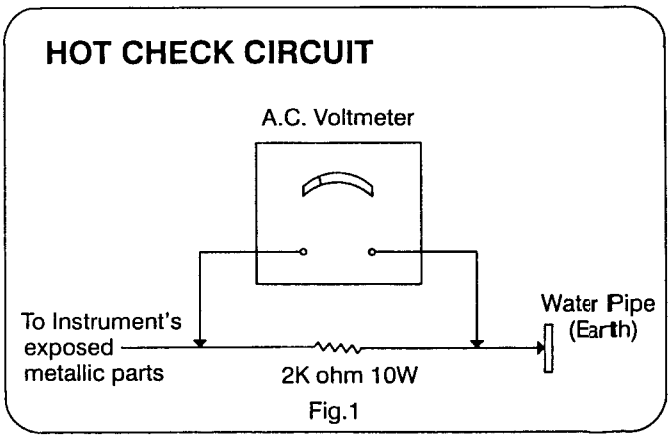


Fig.1

X–Radiation Warning

1. The potential sources of X–Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 31.0kV without causing X–Radiation.

NOTE : It is important to use an accurate periodically calibrated high voltage meter

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 29.7kV +/– 0.7kV (29 .0 kV +/– 0.7 kV, for TX–25A3E) if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent an X–Radiation possibility, it is essential to use the specified tube.

Location Of Controls

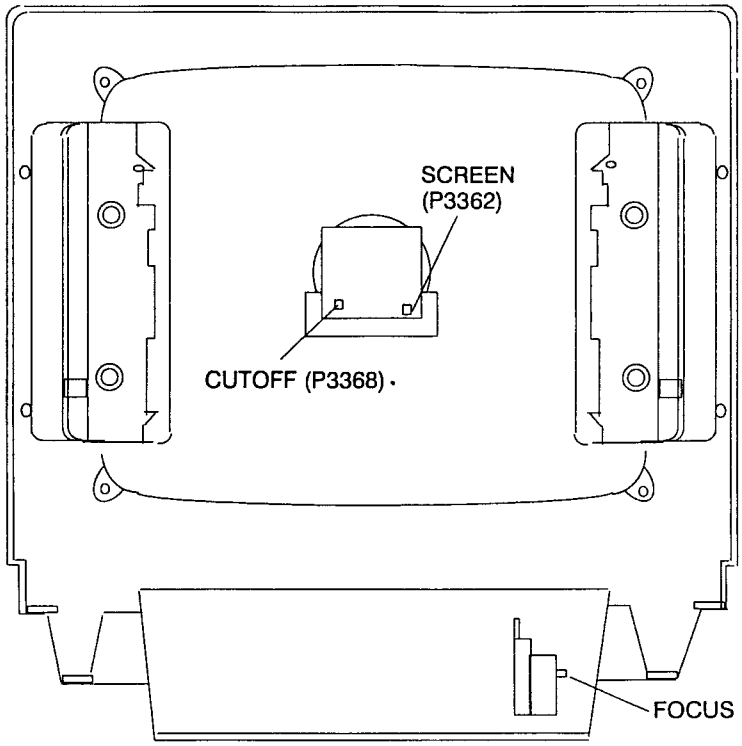


Fig.2

Service Hints

How to remove the rear cover

1. Remove the 8 fixing screws (A) as shown in Fig.3/Fig.4.

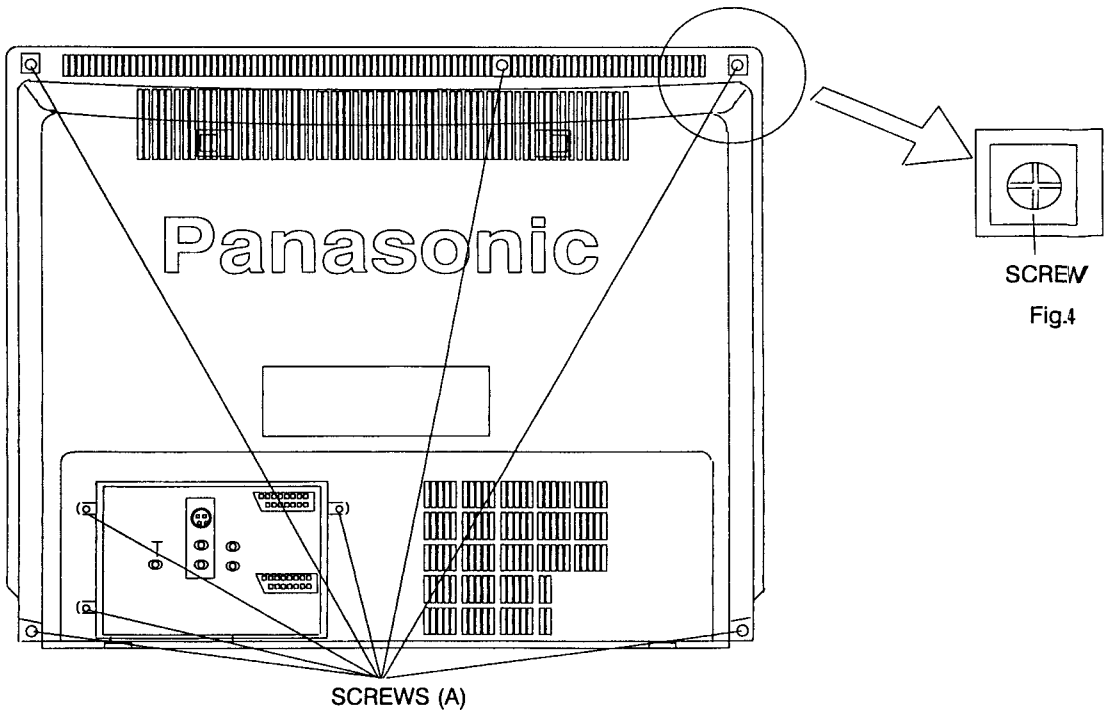


Fig.4

Fig.3.

How to move the chassis into the Service position

1. Hold and lift the rear of the E– PCB chassis as shown in fig.5. and gently pull the chassis toward you.
2. Release the respective wiring clips and turn the chassis through 90°, counter–clockwise, as shown in fig.6.
3. Clip the chassis onto the support bracket (B) as shown in fig.6 and fig.7.
4. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

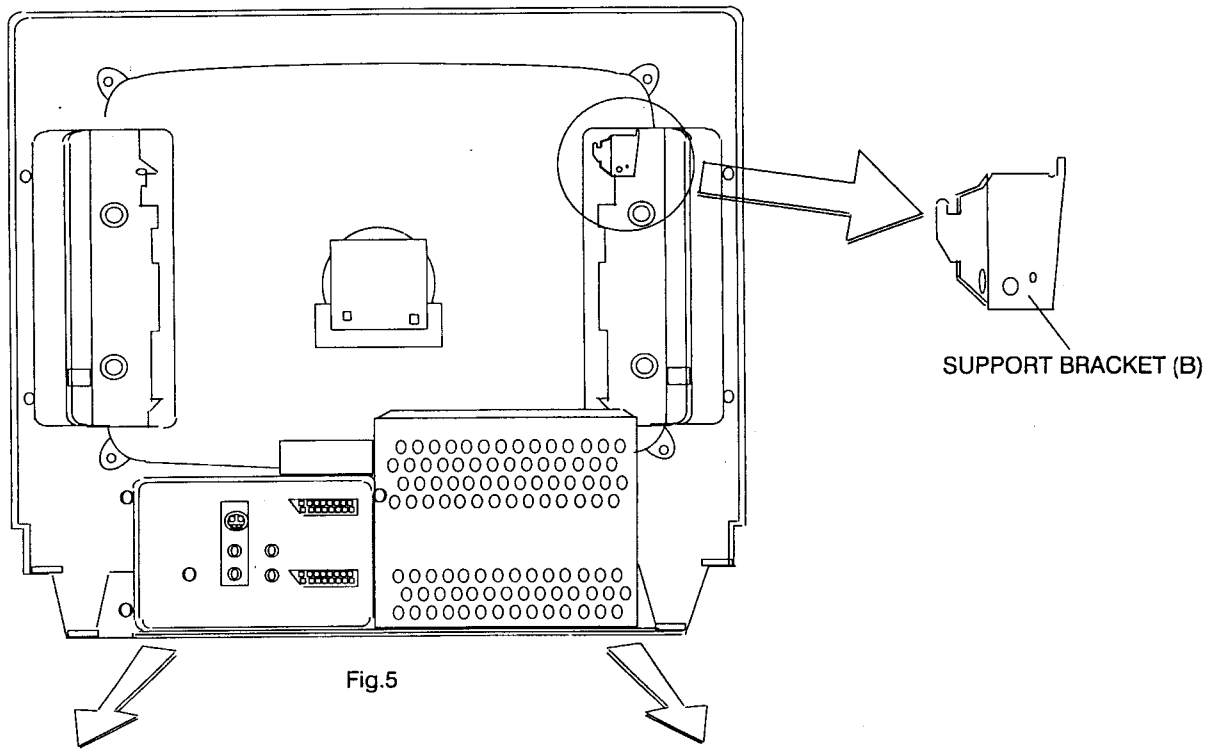


Fig.5

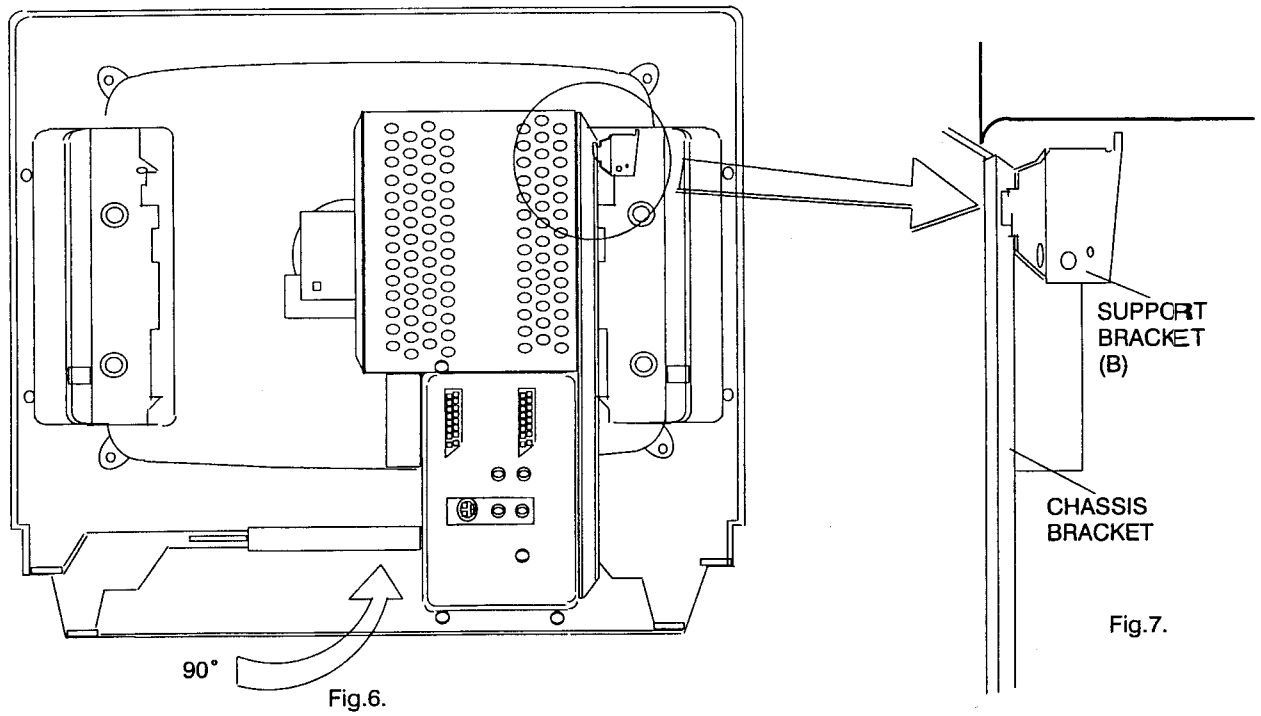


Fig.6.

Fig.7.

HOW TO MOVE THE CONTROL PANEL, L AND P PCB BOARDS

1. Place the E board into the service position as shown on page 4.
2. Remove the three screws (C) (Fig.8) from the front of the chassis.
3. Lift the two plastic clips (D) (Fig.9) and pull the chassis horizontally outwards, making sure no leads are stressed.
4. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

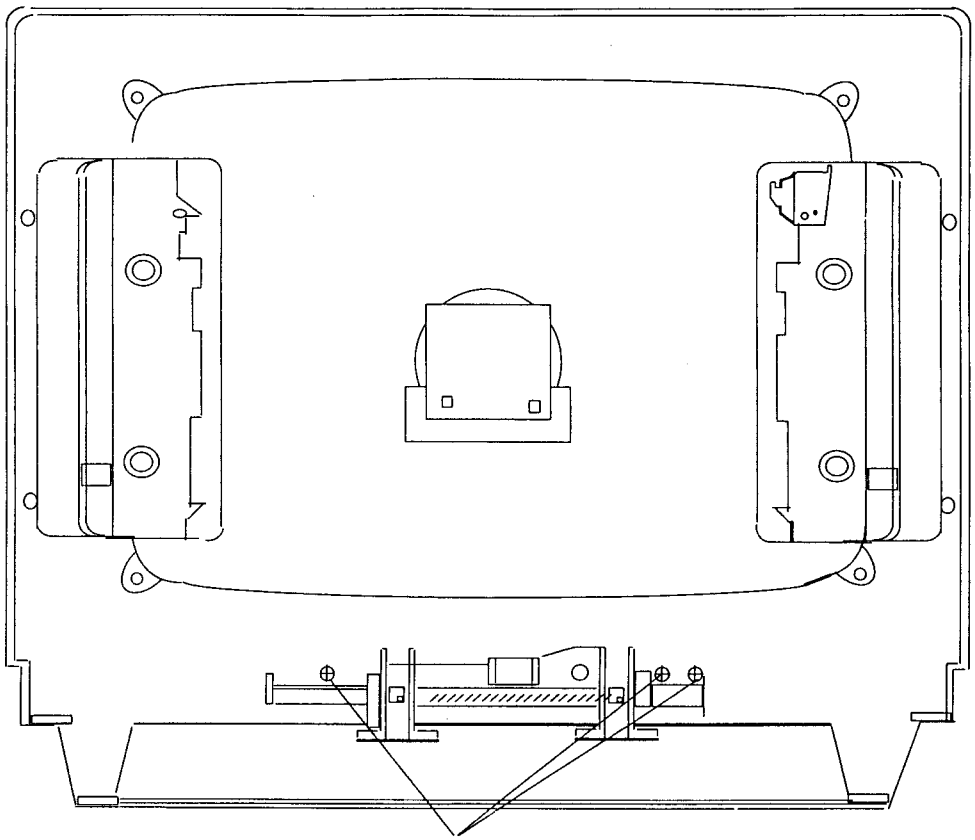


Fig.8.

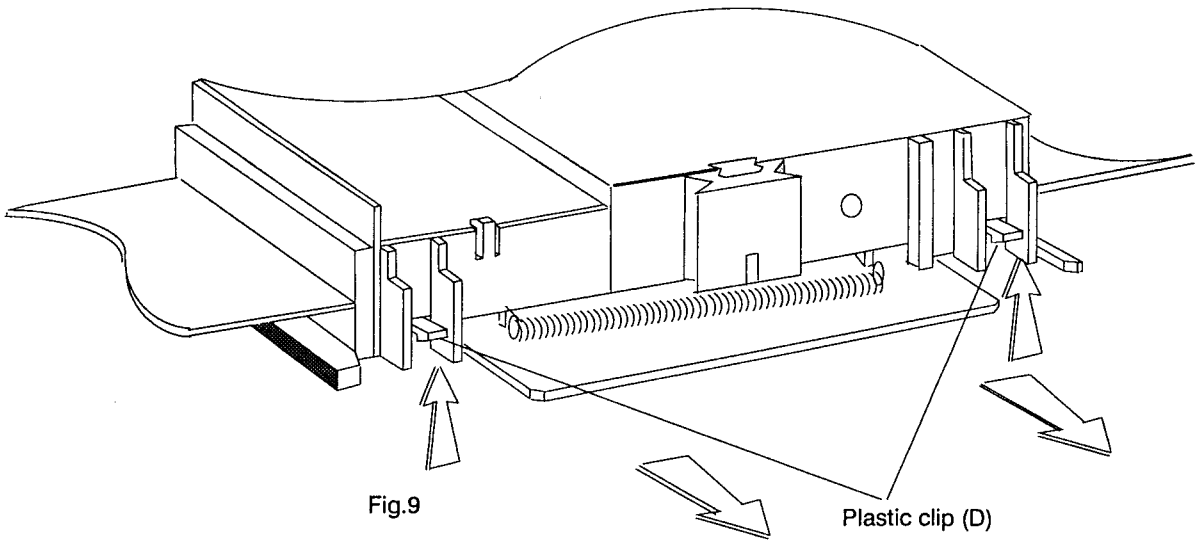


Fig.9

Service position for the A–Board

1. Remove the A–board from the main chassis (E–board), ensuring all leads are disconnected.
2. Remove the two screws (E) (fig.10) from the plastic AV cover and unclip the AV cover from the A–board.
3. Remove the three metal clips (F) (Fig.10) from the metal cover.
4. Unclip the plastic clips at each corner of the front metal cover (fig.11) and remove from the A–board (fig.12). Do the same for the rear metal cover (fig.13).
5. Fit the 3 extension leads to the A–board making sure that the A–board does not touch the E–board (fig.14).
6. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.
   Note : The extension lead wire kit is supplied as a service kit. (Part number TZS2EK025).

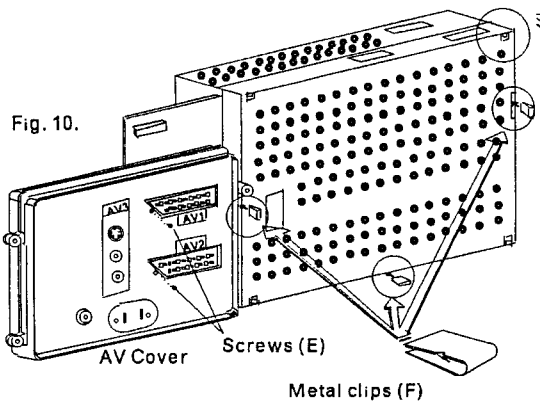


Fig. 10.

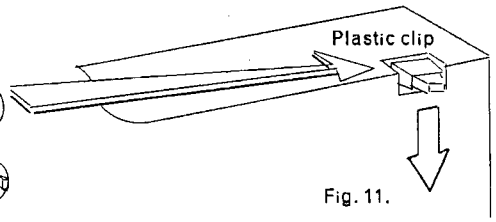


Fig. 11.

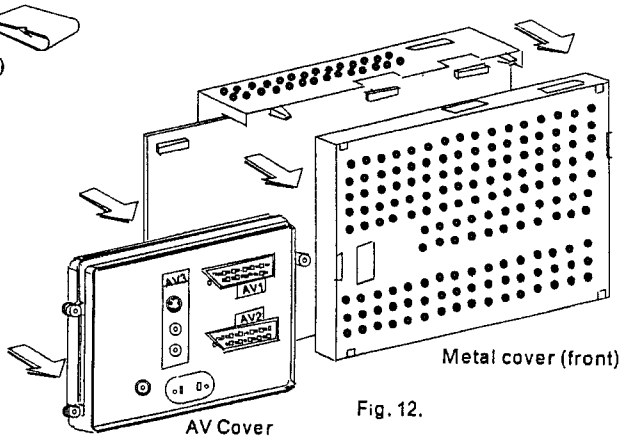


Fig. 12.

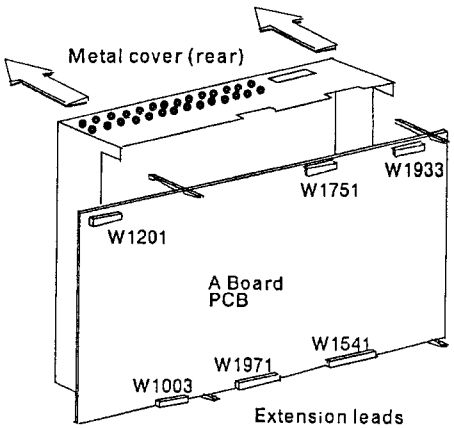


Fig. 13.

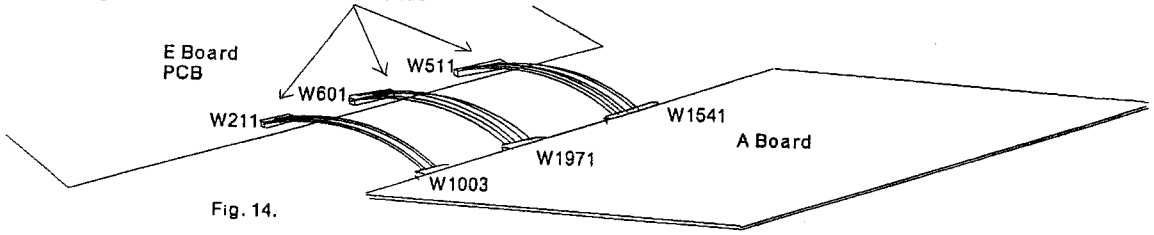


Fig. 14.

Adjustment Procedure

Adjustment	Signal	Conditions	Adjustments	Settings/Special features
Operating voltage	Test pattern	230 V AC 50Hz – beam current 0	Adjust P633	Measure Cathode D651 so a Voltmeter shows +150V±0.5(TX–29A3E +147V±0.5V).
Focus	Test pattern		Focus at line transformer	Optimum setting
Pilot filter	Receive a 54.7KHz signal.	Place oscilloscope probe on pin 19 of IC1301 (ACP2371)	Adjust P1321	Max. amplitude
Video Input Level	Standard Colour Bar Signal	Place oscilloscope probe on pin 10 of IC1601 (SAD2140).	Adjust P1227.	The oscilloscope trace must show 1.80V p–p. ± 0.05V
RF AGC	Receive a standard Colour Bar Signal, 60dB (75Ω) ±2dB.	Place an oscilloscope on tuner AGC pin	Adjust P4703 clockwise	Slowly turn P4703 anti–clockwise, set P4703 where the RF AGC voltage drops by 0.2V from the maximum.

The remote control is used for entering and storing adjustments, with the exception of cut–off adjustments which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. Before you enter the service mode, set contrast to step 44 and brightness to step 22 and store each of these values. The adjustment sequence for the service mode is indicated below.

1. Set the Bass to maximum position, set the Treble to minimum position, press the Volume down on the customer controls at the front of the TV and at the same time press the Reset button on the remote control, this will place the TV into the Service Mode.
2. Press the RED / GREEN buttons to step up / down through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the STORE button on the preset panel after each adjustment has been made to store the required values.
5. To exit the Service Mode switch off the TV.

NOTE: This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels and analogue levels into the Memory Pack and then upload them onto another EURO–1 TV set.

TV to Memory Pack process

1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2. Go into the Service Mode as explained above. The screen will show:–

   Program
   External>>TV

3. Press the blue button on the remote control. The screen will show:–

   Program
   TV>>External

4. Press the STORE button on the TV. The screen will show:–

   Storing

5. All the tuning information stored inside the TV will now be transferred to the Memory Pack. This process will take 2–3 minutes to complete and when finished the screen will show:–

   OK!

Memory Pack to TV Process

1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2. Go into the Service Mode as explained above. The screen will show:–

   Program
   External>>TV

3. Press the STORE button on the TV. The screen will show:–

   Loading

4. All the tuning information stored inside the Memory Pack will now be transferred to the TV. This process will take 2–3 minutes to complete and when finished the screen will show:–

   OK!

5. The tuning information from the Memory Pack has now been copied into the TV
6. To exit from the Service Mode switch off the TV.
7. The process has now been completed and the Memory Pack can now be removed.

Errors

If an error occurs while using the Memory Pack the TV will detect this and the screen will show:–

Program
Error!

If this happens then switch off the TV and then repeat the process that was being used. If the errors continue to occur then check the connectors between the TV and the memory pack and check the 9V battery inside the memory pack.

Alignment Settings (TX−29A3E)

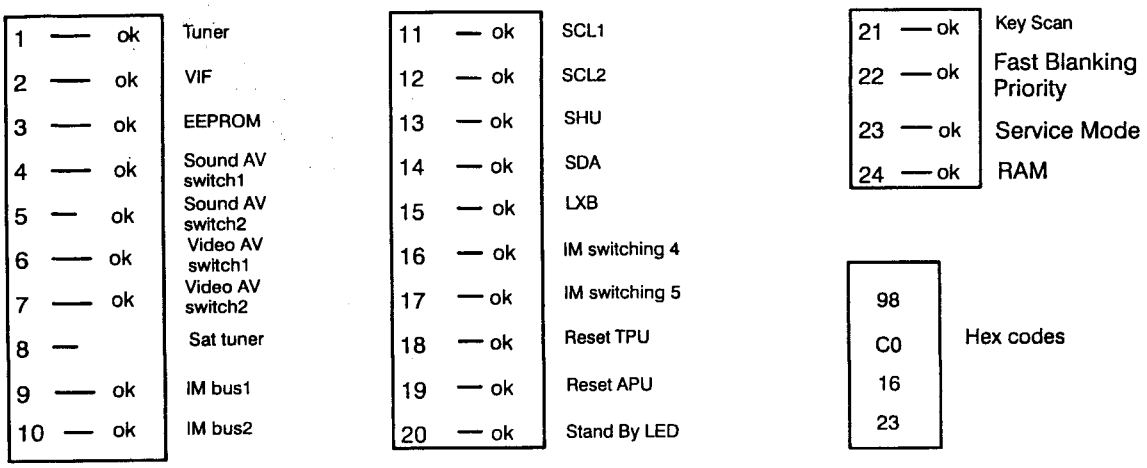
Alignment Function	Display	Settings / Special features
1. Vertical amplitude	V−AMP 154 Amplitude 154	Optimum setting
2. Vertical symmetry	V−SYM 018 Symmetry 018	
3. Vertical linearity	V−LIN 015 Linearity 015	
4. Horizontal amplitude	H−AMP 055 Amplitude 055	
5. Horizontal position	H−POS 002 Position 002	
6. EW−amplitude	E−W−AMP 1 106 EW−Ampl.1 106	
7. EW−amplitude	E−W−AMP 2 037 EW−Amp.2 037	Optimum setting
8. Trapezium−comp	TRAPEZ−1 144 Trapez1 144	Optimum setting
9. Trapezium− comp	TRAPEZ−2 034 Trapez2 034	
10. Switch−over point	SW−OVER−1 028 SW−Over−1 028	
11. Switch−over point	SW−OVER−2 155 SW−Over−2 155	Do not adjust
12. Y−delay	Y−DELAY 011 Y−Delay 011	Optimum setting
13. Sub−carrier osc. adjustment	COLOUR−VCO 033 Colour VCO 033	Set frequency
14. Screen	SCREEN 040 007 010	To adjust the screen settings. Turn P3362 to minimum, place an oscilloscope probe on the cathode with the highest output and adjust P3368 so the oscilloscope trace reads 160V±5V then turn P3362 up so the highest numbered box on the TV screen reads 040 ± 010.
15. Low light	LOW LIGHT 052 061 040	Press the GREEN button to step through the settings. Adjust for optimum.
16. High light	HIGH LIGHT 205 218 255	Press the GREEN button to step through the settings. Adjust for optimum.

Alignment Settings (TX–25A3E)

Alignment Function	Display	Settings / Special features
1. Vertical amplitude	V–AMP 150 Amplitude 150	Optimum setting
2. Vertical symmetry	V–SYM 024 Symmetry 024	
3. Vertical linearity	V–LIN 021 Linearity 021	
4. Horizontal amplitude	H–AMP 067 Amplitude 067	
5. Horizontal position	H–POS 002 Position 002	
6. EW–amplitude	E–W–AMP 1 048 EW–Ampl.1 048	
7. EW–amplitude	E–W–Amp 2 044 EW–Ampl.2 044	Optimum setting
8. Trapezium–comp	TRAPEZ–1 060 Trapez 1 060	Optimum setting
9. Trapezium– comp	TRAPEZ–2 056 Trapez 2 056	
10. Switch–over point	SW–OVER–1 024 SW–Over 1 024	
11. Switch–over point	SW–OVER–2 142 SW–Over 2 142	Do not adjust
12. Y–delay	Y–DELAY 010 Y–Delay 010	Optimum setting
13. Sub–carrier osc. adjustment	Colour–VCO 043 Colour VCO 043	Set frequency
14. Screen	SCREEN 040 | 007 | 010	To adjust the screen settings. Turn P3362 to minimum, place an oscilloscope probe on the cathode with the highest output and adjust P3368 so the oscilloscope trace reads 170V±5V then turn P3362 up so the highest numbered box on the TV screen reads 040 ± 010.
15. Low light	LOW LIGHT 054 | 039 | 053	Press the GREEN button to step through the settings. Adjust for optimum.
16. High light	HIGH LIGHT 211 | 235 | 255	Press the GREEN button to step through the settings. Adjust for optimum.

SELF CHECK

Self check is used to automatically check the Bus lines and Hexadecimal code of the TV set.
To enter the Self Check mode press Volume down button, on the Preset Panel, at the same time pressing the Off Timer button, on the Remote Control, and the screen will show:–



If the CCU ports have been checked and found to be incorrect then "– –" will appear in place of "OK".

Reset Analogue Values

After exiting from the Self Check mode the set will have reset the EEPROM to the values descibed below:–

Recall	Off
Last programme	1
Music / Speech	Music
Last AV	AV1
Sound Multi	Stereo, S1
Balance	Centre
Warm–up	Reset
Programme data (0–99)	AFC ..... On
	Colour Sys .. Auto
	Fine Tune ... Centre
Sets to normal levels	Volume
	Bass
	Treble
	Colour
	Brightness
	Tint
	Contrast
	Sharpness

Fixed Mode Operation

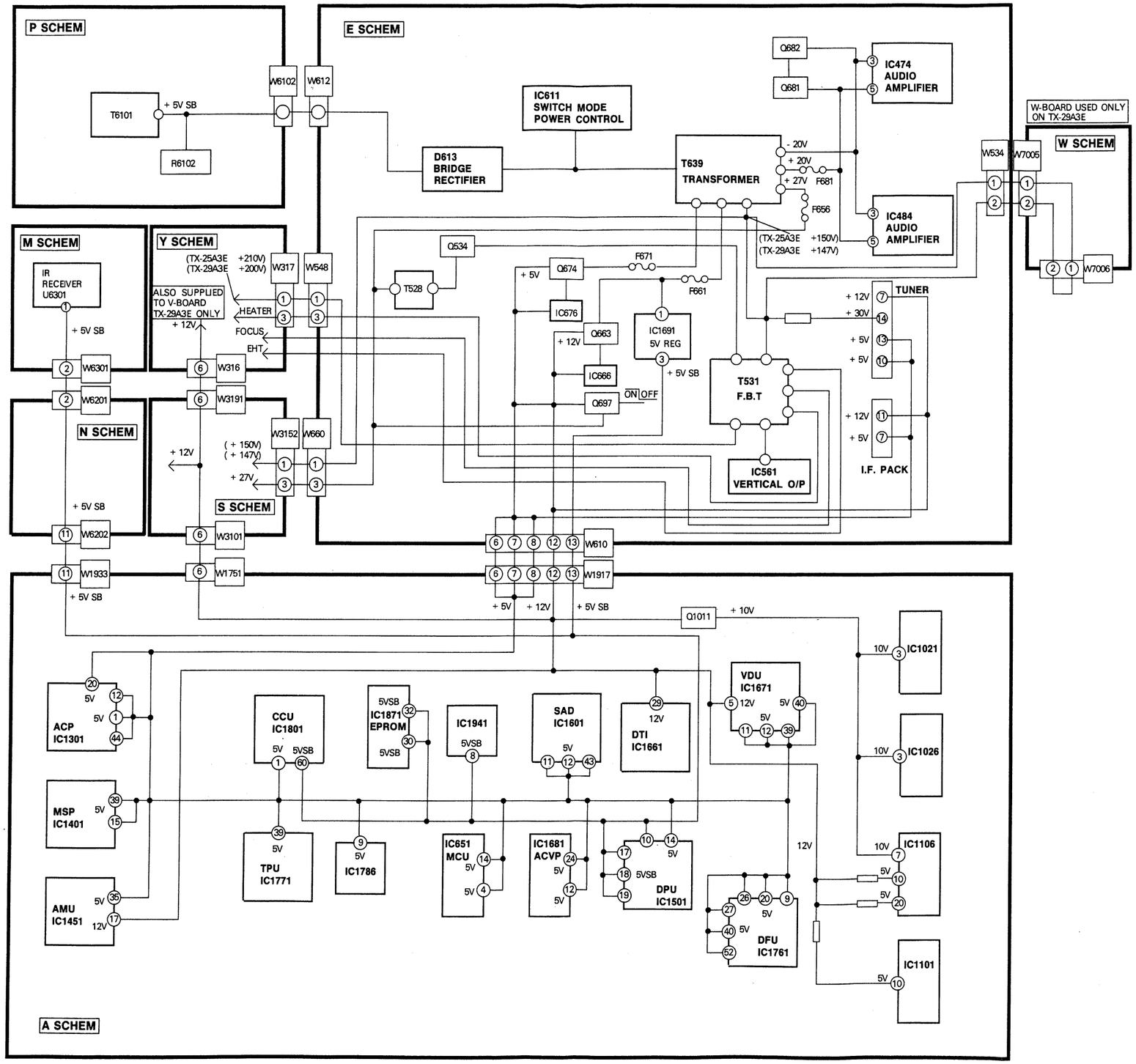
This will reset to the following listed settings and TV systems to assist fault–finding and servicing of the TV set.
Use the Service Remote Control (Part No. TZS2EK004) to enter the fixed mode operation as follows.
Press the **Service button,** located between the Off Timer and Audio Out buttons, plus one of the following numeric keys to select the desired TV system and listed functions:–

1	Fixed data + PAL
2	Fixed data + SECAM
3	Fixed data + M–NTSC
4	Fixed data + NTSC

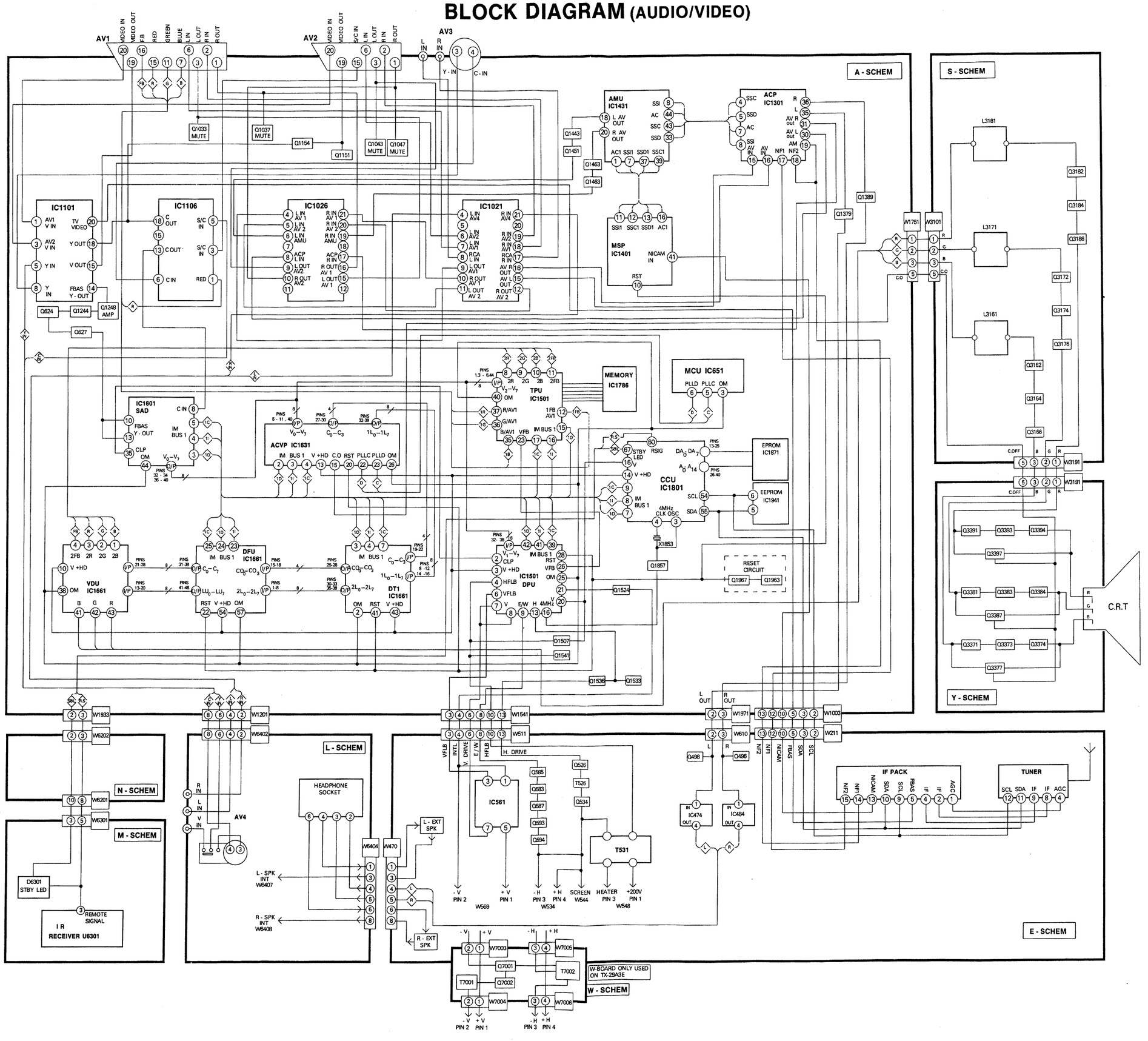
Fixed Data

Power	On
AV	On (AV1)
Colour	Mid
Brightness	Mid
Contrast	Max
Sharpness	Mid
Ec Mode	Off
RGB Interrupt	Off
Text Processor	TV
OSD	Off
Volume	Position 8 of 64 steps
Balance	Centre
Bass	Centre
Treble	Centre
Music / Speech	Music

BLOCK DIAGRAM (POWER LINE)

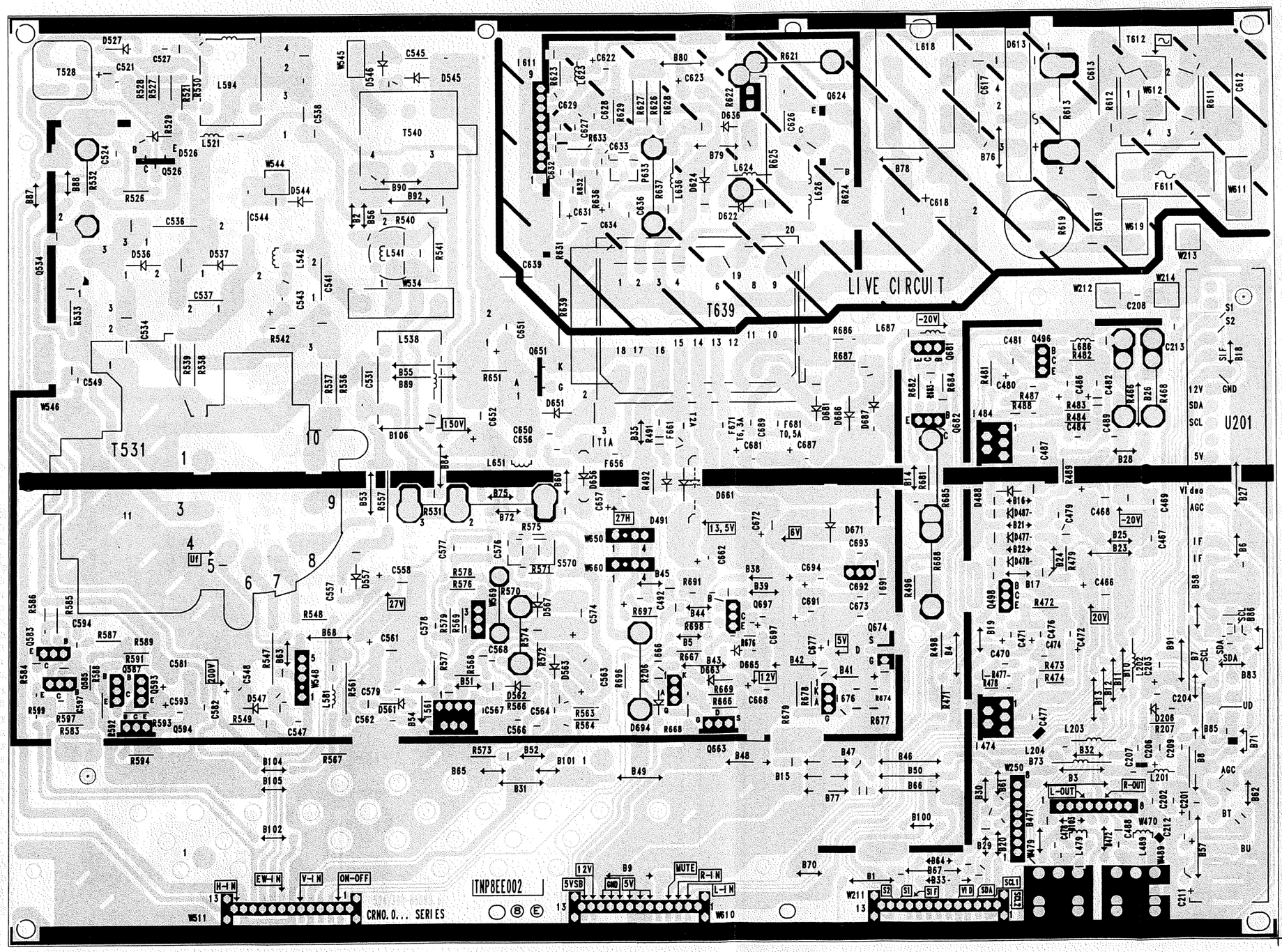


BLOCK DIAGRAM (AUDIO/VIDEO)



CONDUCTOR VIEWS

E-BOARD TNP8EE002



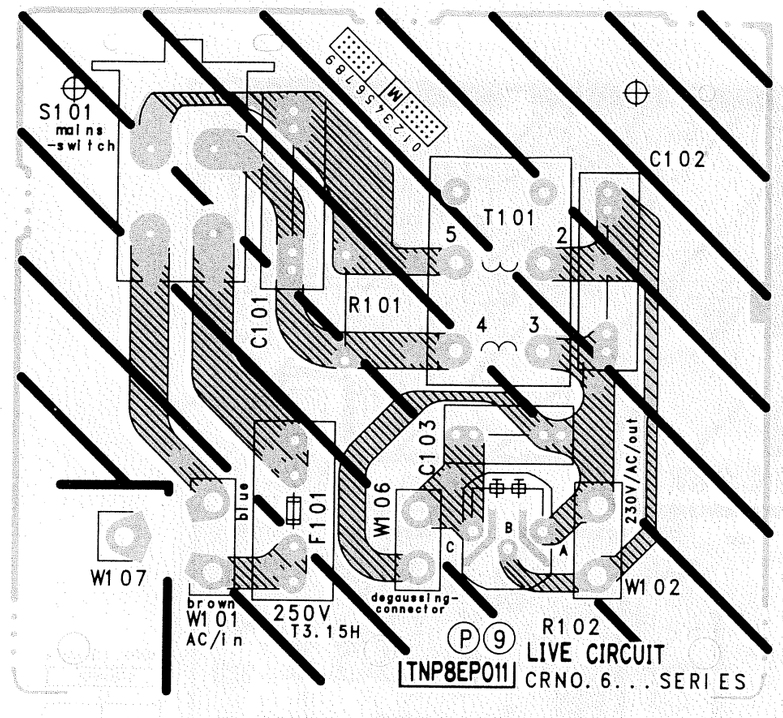
PARTS LOCATION

E-BOARD	
IC	
IC561	C2
IC611	D6
IC666	E2
IC676	F2
IC691	F2
IC484	F4
IC474	G2
Transistor	
Q583	A2
Q585	A2
Q587	A2
Q534	A5
Q593	B2
Q594	B2
Q526	B5
Q651	D4
Q663	E2
Q697	E3
Q674	F3
Q681	F4
Q682	F4
Q624	F6
Q498	G3
Q496	G4

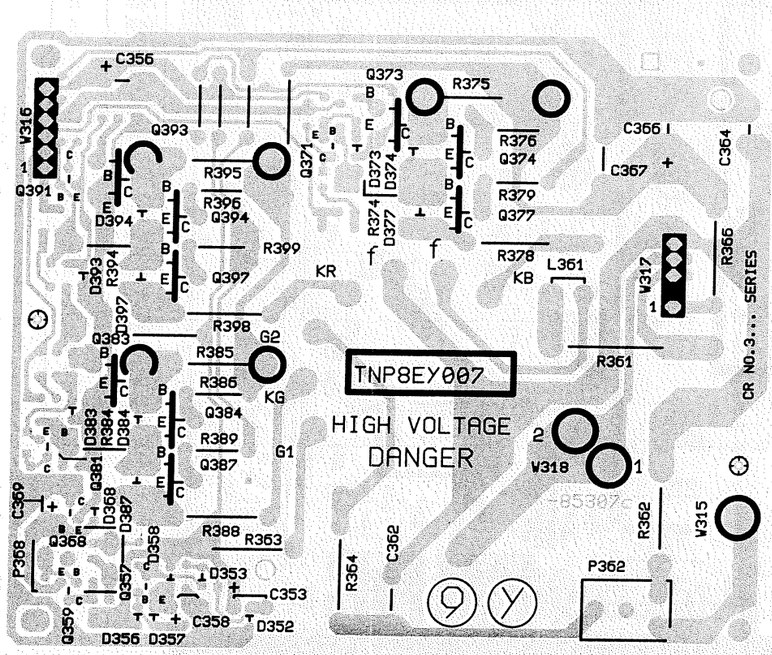
E-BOARD	
Diode	
D527	A6
D547	B2
D526	B5
D536	B5
D537	B5
D544	B5
D561	C2
D557	C3
D562	D2
D563	D2
D656	D3
D567	D3
D651	D4
D663	E2
D665	E2
D694	E2
D491	E3
D661	E3
D681	E4
D622	E5
D624	E5
D636	E5
D671	F3
D686	F4
D687	F4
D206	G2
D477	G3
D478	G3
D487	G3
D488	G3
D613	G6

P-BOARD TNP8EP011

NOTE:
ALL COMPONENTS ON THE Y BOARD HAVE THE NUMBER (3) BEFORE THE COMPONENT NUMBER ie Q359 IS Q3359.



Y-BOARD TNP8EY007

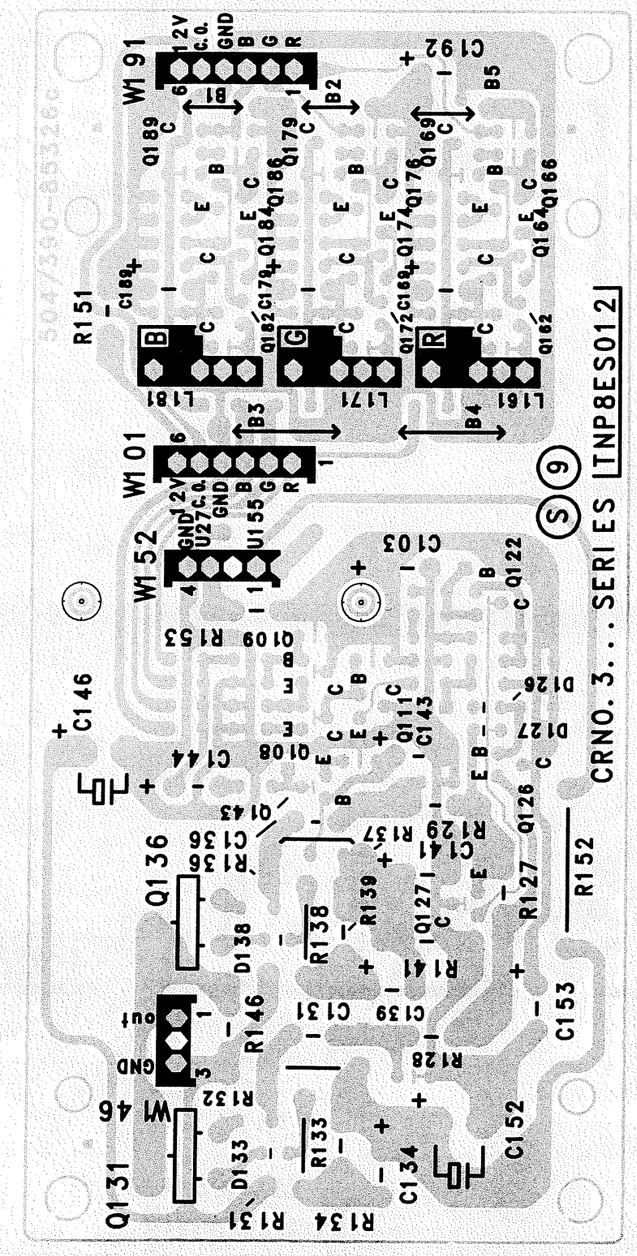


PARTS LOCATION

Y-BOARD	
Transistor	
Q3359	A1
Q3368	A1
Q3391	A3
Q3357	B1
Q3387	B1
Q3381	B2
Q3383	B2
Q3384	B2
Q3371	B3
Q3393	B3
Q3394	B3
Q3397	B3
Q3373	C3
Q3374	C3
Q3377	C3
Diode	
D3352	B1
D3353	B1
D3356	B1
D3357	B1
D3358	B1
D3368	B1
D3387	B1
D3383	B2
D3384	B2
D3393	B2
D3397	B2
D3394	B3
D3373	C3
D3374	C3
D3377	C3

NOTE:
ALL COMPONENTS ON THE S BOARD HAVE THE NUMBER (3) BEFORE THE COMPONENT NUMBER ie Q131 IS Q3131..

S-BOARD TNP8ES012

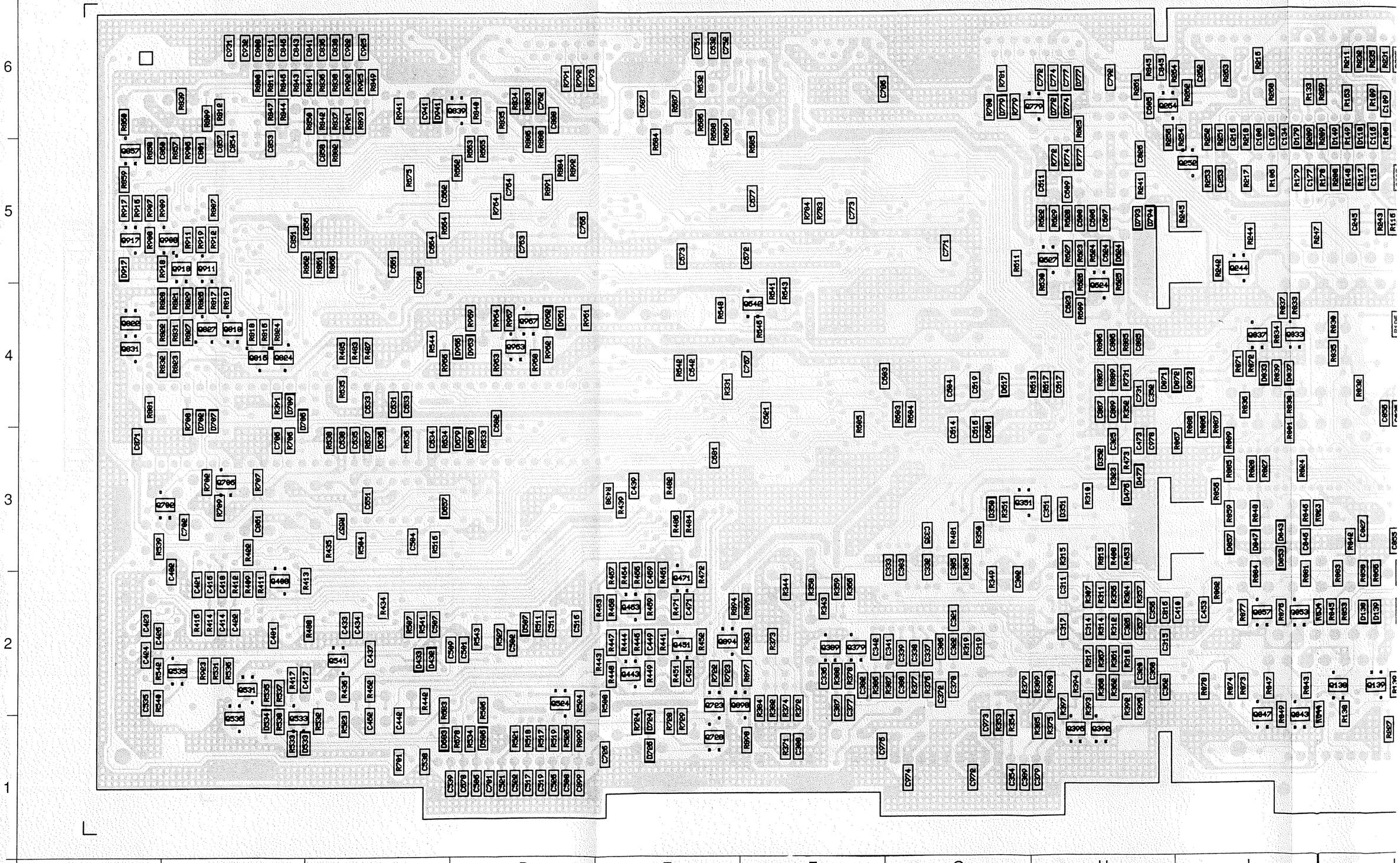


PARTS LOCATION

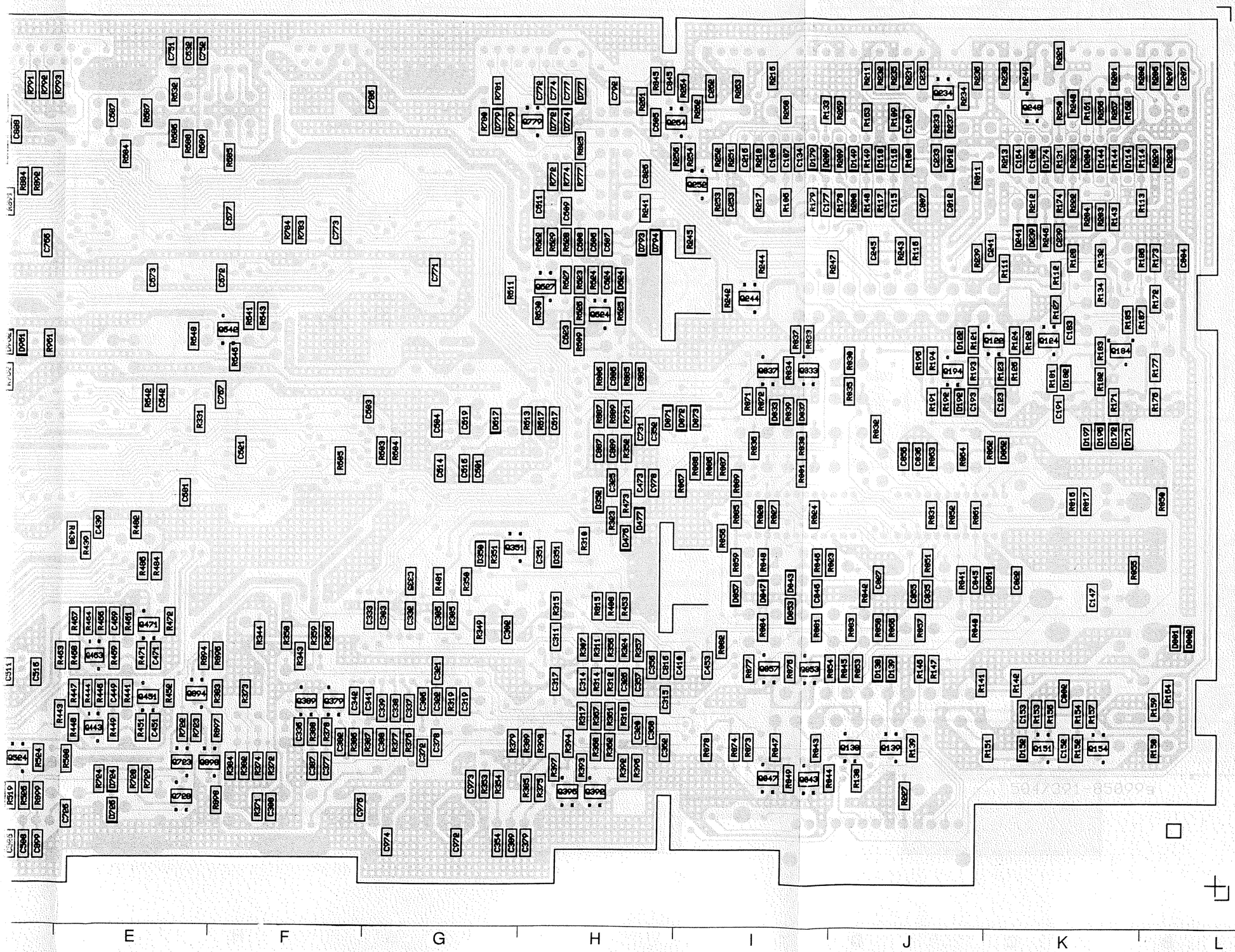
S-BOARD	
Transistor	
Q3131	B1
Q3189	B5
Q3127	D2
Q3136	C2
Q3108	C3
Q3109	C3
Q3143	C3
Q3172	C4
Q3174	C5
Q3179	C5
Q3182	C5
Q3184	C5
Q3186	C5
Q3179	C5
Q3189	C5
Q3126	D3
Q3111	D3
Q3122	D4
Q3162	D5
Q3164	D5
Q3166	D5
Q3169	D5
Q3176	D5
Q3169	D5
Diode	
D3133	C1
D3138	C2
D3126	D3
D3127	D3

A-BOARD TNP8EA003

NOTE:
ALL COMPONENTS ON THE A BOARD HAVE THE NUMBER (1) BEFORE THE COMPONENT NUMBER ie Q139 IS Q1139.



A-BOARD TNP8EA003



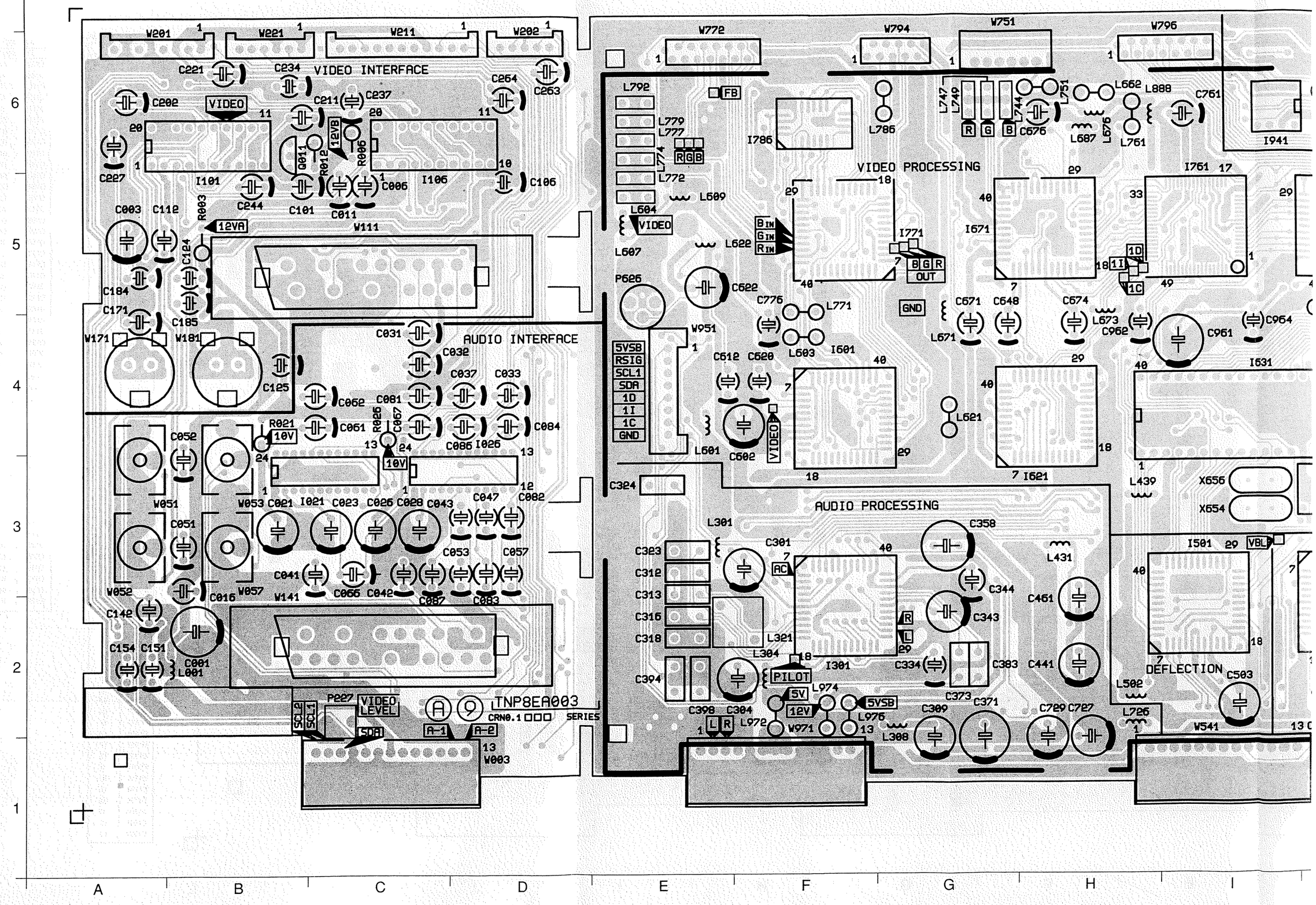
PARTS LOCATION

A-BOARD	
Diode	
D1533	B1
D1534	B1
D1702	B4
D1707	B4
D1709	B4
D1683	C1
D1432	C2
D1433	C2
D1636	C3
D1657	C3
D1679	C3
D1706	C4
D1941	C6
D1506	D1
D1507	D2
D1678	D3
D1961	D4
D1962	D4
D1963	D4
D1966	D4
D1724	E1
D1726	E1
D1350	G3
D1351	G3
D1617	G4
D1779	G6
D1352	H3
D1476	H3
D1477	H3
D1071	H4
D1072	H4
D1624	H5
D1793	H5
D1794	H5
D1772	H6
D1774	H6
D1777	H6
D1041	I3
D1042	I3
D1043	I3
D1033	I4
D1037	I4
D1073	I4
D1179	I6
D1209	I6
D1138	J2
D1139	J2
D1031	J3
D1041	J3
D1051	J3
D1061	J3
D1032	J4
D1052	J4
D1122	J4
D1012	J5
D1149	J6
D1152	K2
D1062	K4
D1171	K4
D1172	K4
D1196	K4
D1197	K4
D1239	K5
D1241	K5
D1114	K6
D1144	K6
D1174	K6
D1204	K6
D1001	L2
D1002	L2

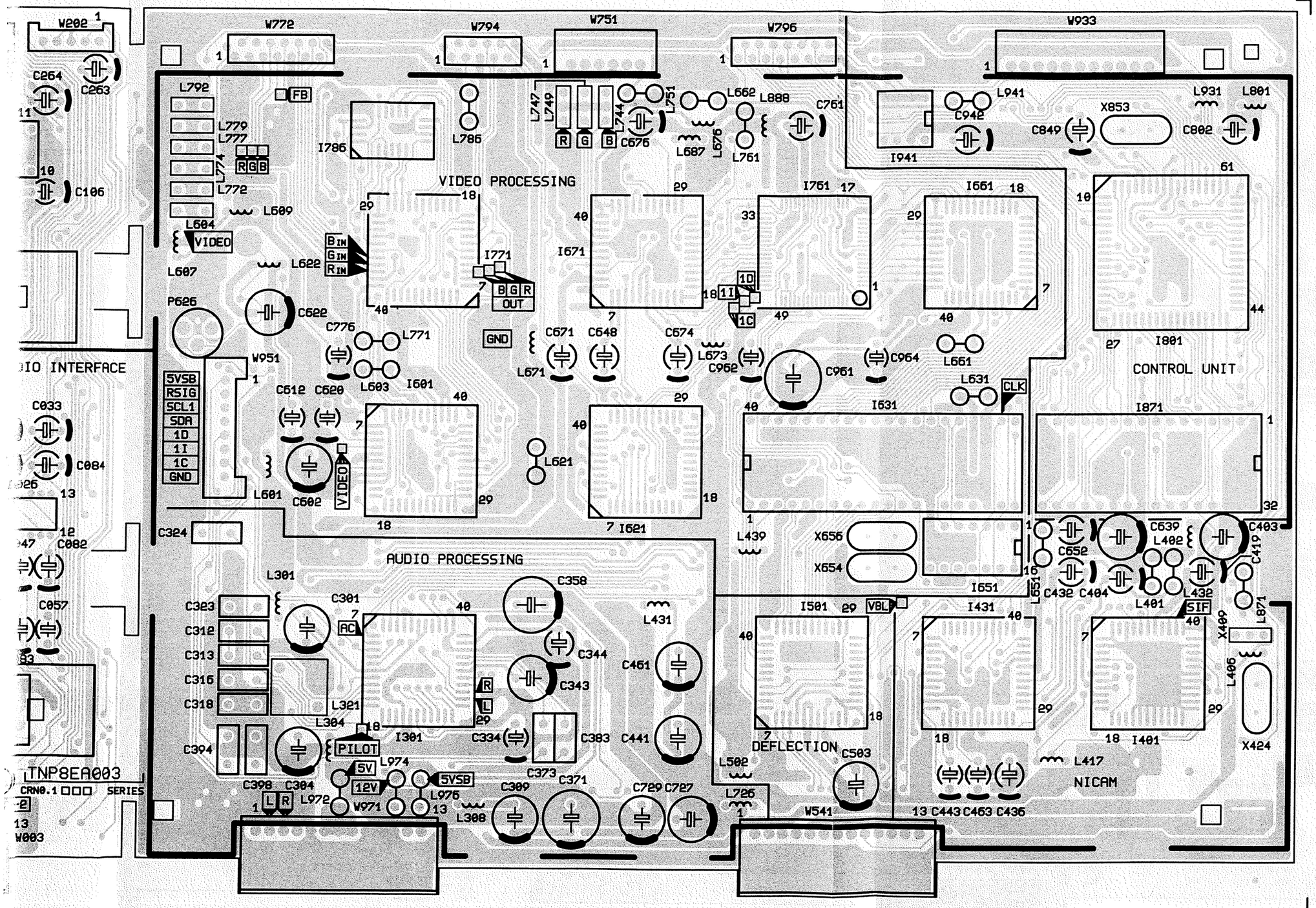
A-BOARD	
Transistor	
Q1822	A4
Q1831	A4
Q1857	A5
Q1533	B1
Q1536	B1
Q1531	B2
Q1702	B3
Q1706	B3
Q1816	B4
Q1824	B4
Q1827	B4
Q1541	C2
Q1451	C2
Q1524	D2
Q1963	D4
Q1967	D4
Q1839	D6
Q1728	E1
Q1443	E2
Q1463	E2
Q1471	E2
Q1723	E2
Q1894	E2
Q1898	E2
Q1379	F2
Q1389	F2
Q1642	F4
Q1651	G3
Q1264	H5
Q1624	H5
Q1627	H5
Q1779	H6
Q1043	I2
Q1047	I2
Q1053	I2
Q1057	I2
Q1033	I4
Q1037	I4
Q1244	I5
Q1252	I5
Q1138	J2
Q1139	J2
Q1194	J4
Q1234	J6
Q1151	K2
Q1154	K2
Q1124	K4
Q1184	K4
Q1248	K5

A-BOARD TNP8EA003

NOTE:
ALL COMPONENTS ON THE A BOARD HAVE THE NUMBER (1) BEFORE THE COMPONENT NUMBER ie IC101 IS IC1101.



A-BOARD TNP8EA003

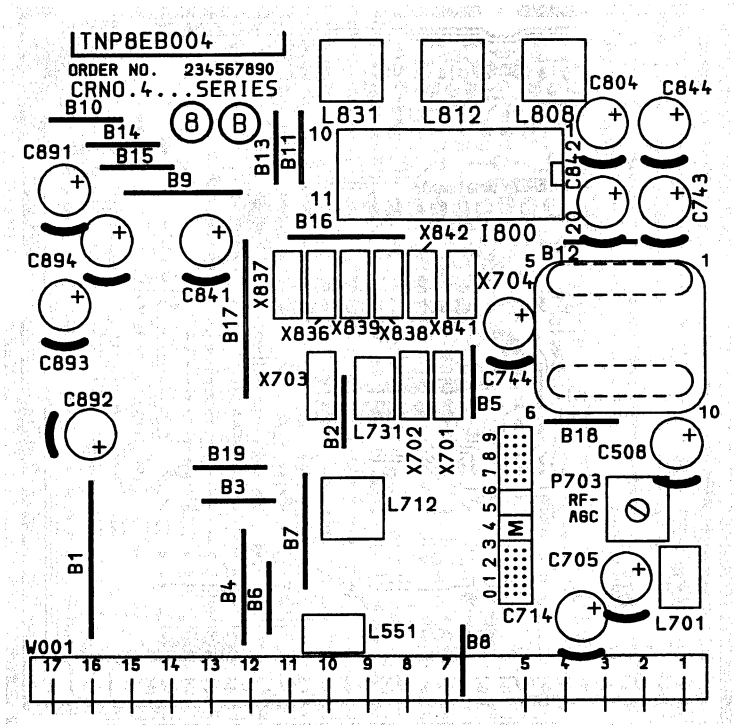


PARTS LOCATION

A-BOARD	
IC	
IC1101	B5
IC1021	C3
IC1106	C5
IC1026	D4
IC1301	F2
IC1601	F4
IC1786	F6
IC1671	G5
IC1771	G5
IC1501	I2
IC1941	I6
IC1631	I4
IC1761	I5
IC1651	J3
IC1661	J5
IC1871	K4
IC1801	K5
Transistor	
Q1011	C6

NOTE:
ALL COMPONENTS ON THE B BOARD HAVE THE NUMBER (4) BEFORE THE COMPONENT NUMBER ie IC700 IS Q4700.

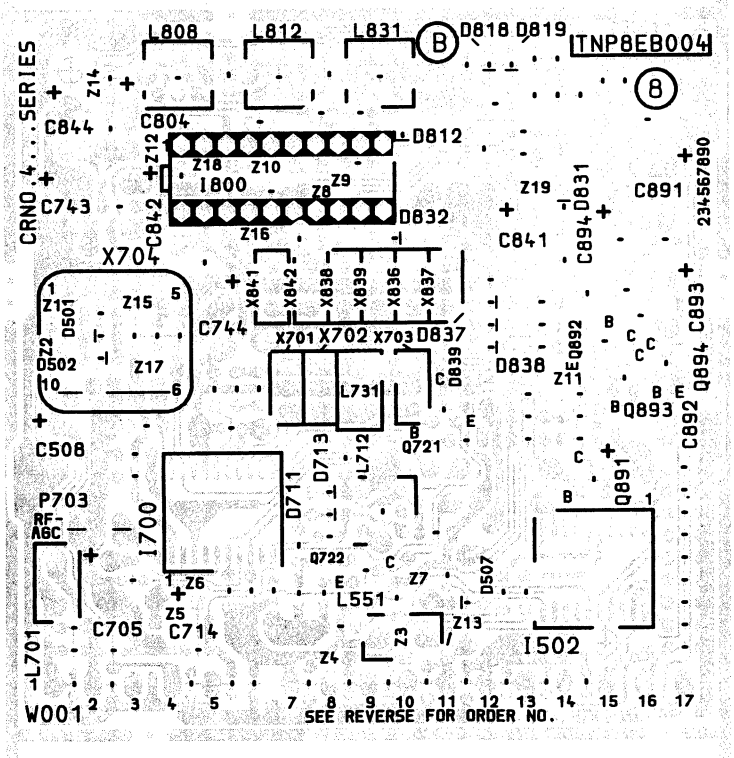
B-BOARD TNP8EB004



PARTS LOCATION

B-BOARD	
IC	
IC4700	B2
IC4800	B3
IC4502	C1
Transistor	
Q4722	B1
Q4721	B2
Q4891	C2
Q4892	C2
Q4893	C2
Q4892	C2
Diodes	
D4501	A2
D4502	A2
D4863	A3
D4862	A3
D4711	B1
D4751	B1
D4713	B2
D4750	B2
D4838	B2
D4515	C1
D4837	C2
D4839	C2
D4832	C2
D4812	C2
D4818	C3
D4831	C3
D4819	C3

B-BOARD TNP8EB004



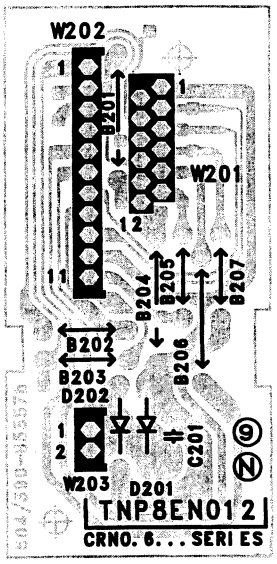
NOTE:
ALL COMPONENTS ON THE N BOARD HAVE THE NUMBER (6) BEFORE THE COMPONENT NUMBER ie D201 IS D6201.

NOTE:
ALL COMPONENTS ON THE L BOARD HAVE THE NUMBER (6) BEFORE THE COMPONENT NUMBER ie D432 IS D6432.

N-BOARD TNP8EN012

PARTS LOCATION

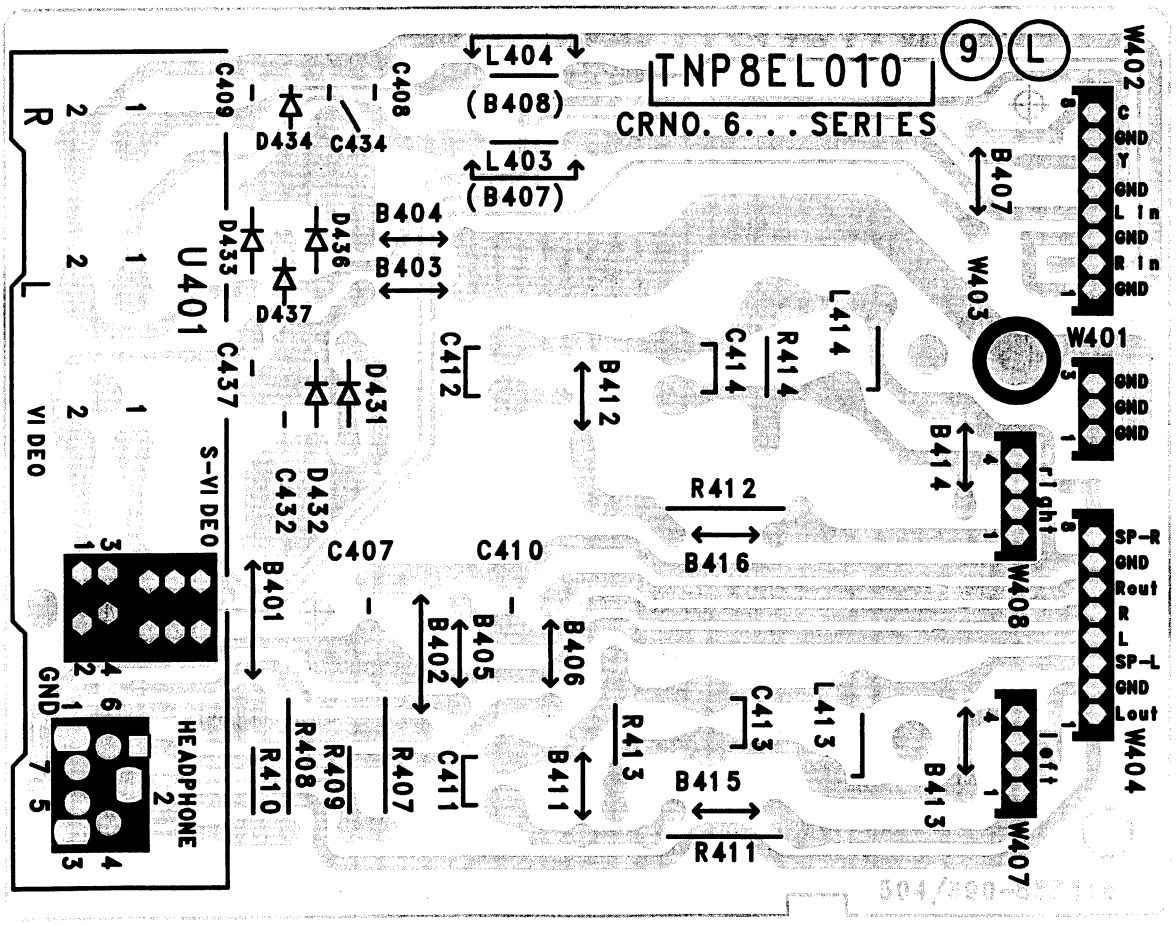
N-BOARD	
Diode	
D6201	C5
D6202	C5



PARTS LOCATION

L-BOARD	
Diode	
D6432	B2
D6431	B3
D6433	B3
D6436	B3
D6437	B3
D6434	B4

L-BOARD TNP8EL010



SCHEMATIC DIAGRAM FOR MODELS TX–29/25A3E (EURO–1 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes

1. RESISTOR
   All resistors are carbon 1/8W resistor, unless marked.
   Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).
2. CAPACITOR
   All capacitors are ceramic 50V capacitors, unless marked, the unit of capacitance is μF unless otherwise stated.
3. COIL
   Unit of inductance is μH, unless otherwise stated.
4. TEST POINT
   : Test Point position

   : Waveform Test Point position
5. EARTH SYMBOL
   : Chassis Earth (Cold)

   : Line Earth (Hot)
6. VOLTAGE MEASUREMENT
   Voltage is measured by a DC voltmeter.
   Measurement conditions are as follows:

Power source	AC 230V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

7.
   : Indicates the Video signal path

   : Indicates the Audio signal path

   : Indicates the Vertical/Horizontal signal path
8. This schematic diagram is the latest at the time of printing and is subject to change without notice.

Precautions

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.

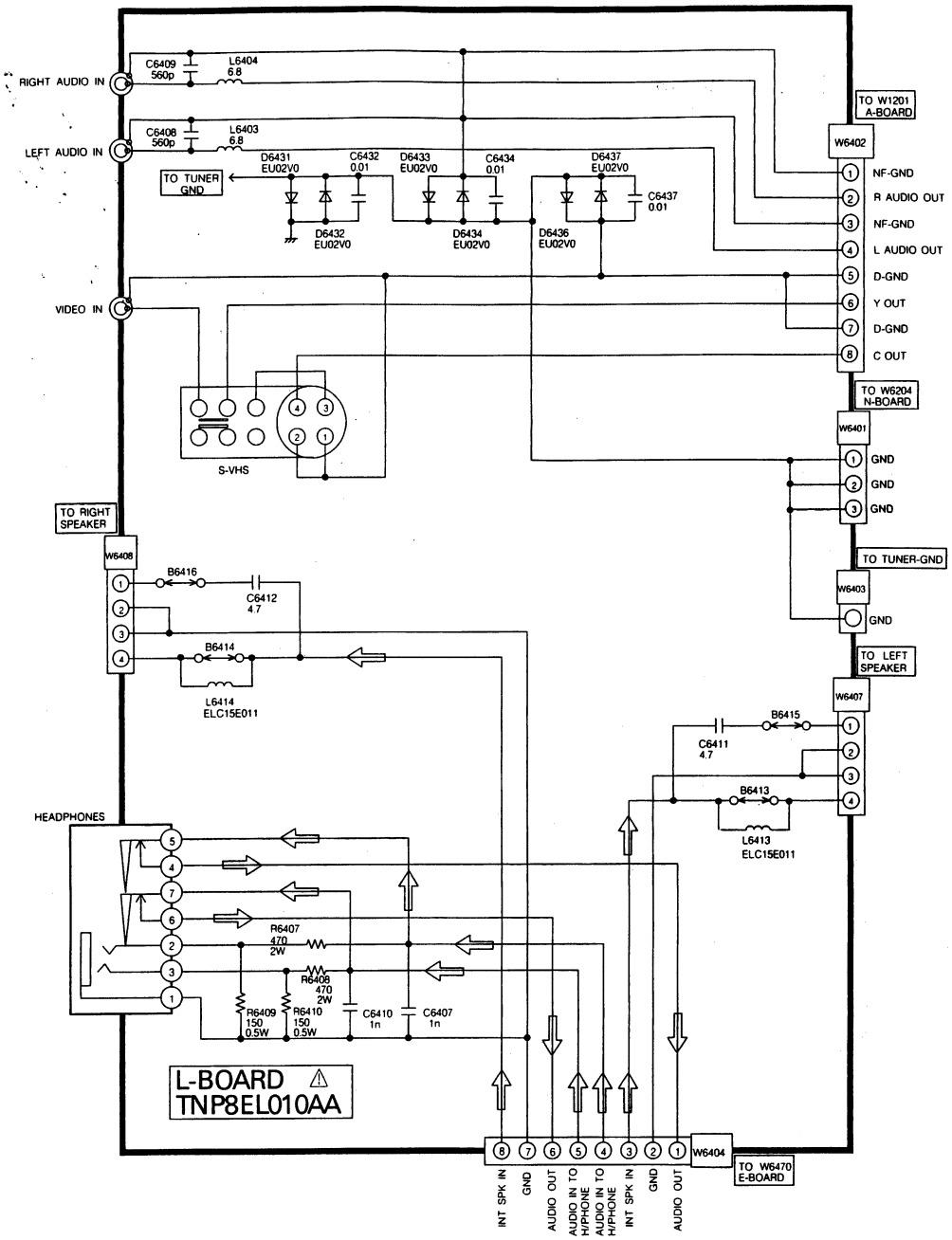
b. Do not short–circuit the hot and cold circuits as electrical components may be damaged.

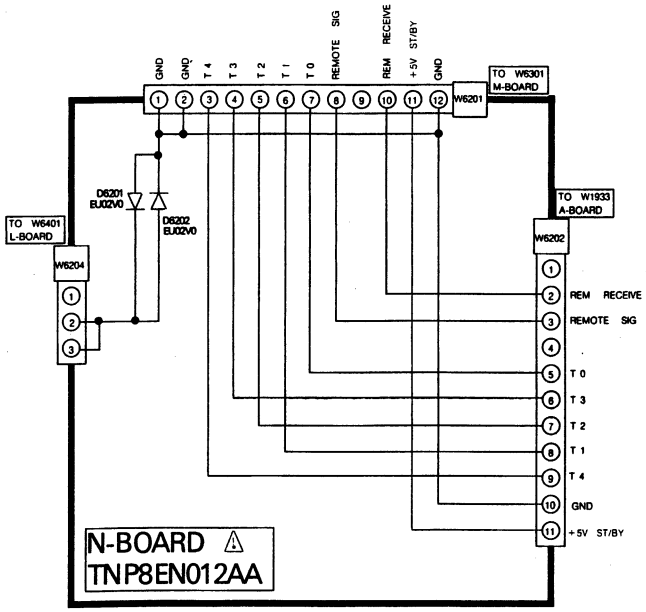
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.

d. Make sure to disconnect the power plug before removing the chassis.

Remarks

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.


RIGHT AUDIO IN
C6409 560p
L6404 6.8
LEFT AUDIO IN
C6408 560p
L6403 6.8
TO TUNER GND
D6431 EU02V0
C6432 0.01
D6433 EU02V0
C6434 0.01
D6437 EU02V0
C6437 0.01
D6432 EU02V0
D6434 EU02V0
D6436 EU02V0
VIDEO IN
S-VHS
TO W1201 A-BOARD
W6402
NF-GND
R AUDIO OUT
NF-GND
L AUDIO OUT
D-GND
Y OUT
D-GND
C OUT
TO W6204 N-BOARD
W6401
GND
GND
GND
TO TUNER-GND
W6403
GND
TO RIGHT SPEAKER
W6408
B6416
C6412 4.7
B6414
L6414 ELC15E011
TO LEFT SPEAKER
W6407
B6415
C6411 4.7
B6413
L6413 ELC15E011
HEADPHONES
R6407 470 2W
R6408 470 2W
R6409 150 0.5W
R6410 150 0.5W
C6410 1n
C6407 1n
L-BOARD
TNP8EL010AA
W6404
TO W6470 E-BOARD
INT SPK IN
GND
AUDIO OUT
AUDIO IN TO H/PHONE
AUDIO IN TO H/PHONE
INT SPK IN
GND
AUDIO OUT


GND
GND
T 4
T 3
T 2
T 1
T 0
REMOTE SIG
REM RECEIVE
+5V ST/BY
GND
TO W6301 M-BOARD
W6201
TO W6401 L-BOARD
W6204
D6201 EU02V0
D6202 EU02V0
TO W1933 A-BOARD
W6202
REM RECEIVE
REMOTE SIG
T 0
T 3
T 2
T 1
T 4
GND
+5V ST/BY
N-BOARD
TNP8EN012AA

A BOARD
TX-29A3E TNP8EA003AU
TX-25A3E TNP8EA003AJ

IC1501 DPU2553 DEFLECTION PROCESSOR

IC1631 ACVP2205 ADAPTIVE COMB FILTER AND VIDEO PROCESSOR

IC1601 SAD2140 S-VHS ANALOGUE TO DIGITAL CONVERTOR

IC1786 MN41256A DRAM

IC1771 TPU2735 TELETEXT PROCESSOR

IC651 MCU2600 MASTER CLOCK UNIT

IC1661 DTI2223 DIGITAL TRANSIENT IMPROVEMENT

IC1671 VDU2146 VIDEO DISPLAY UNIT

IC1761 MN8333 DIGITAL FEATURE UNIT

IC1871 27C010-150DC EPROM

IC1801 CCU3000 CENTRAL CONTROL UNIT

IC1941 X24C16-P EEPROM

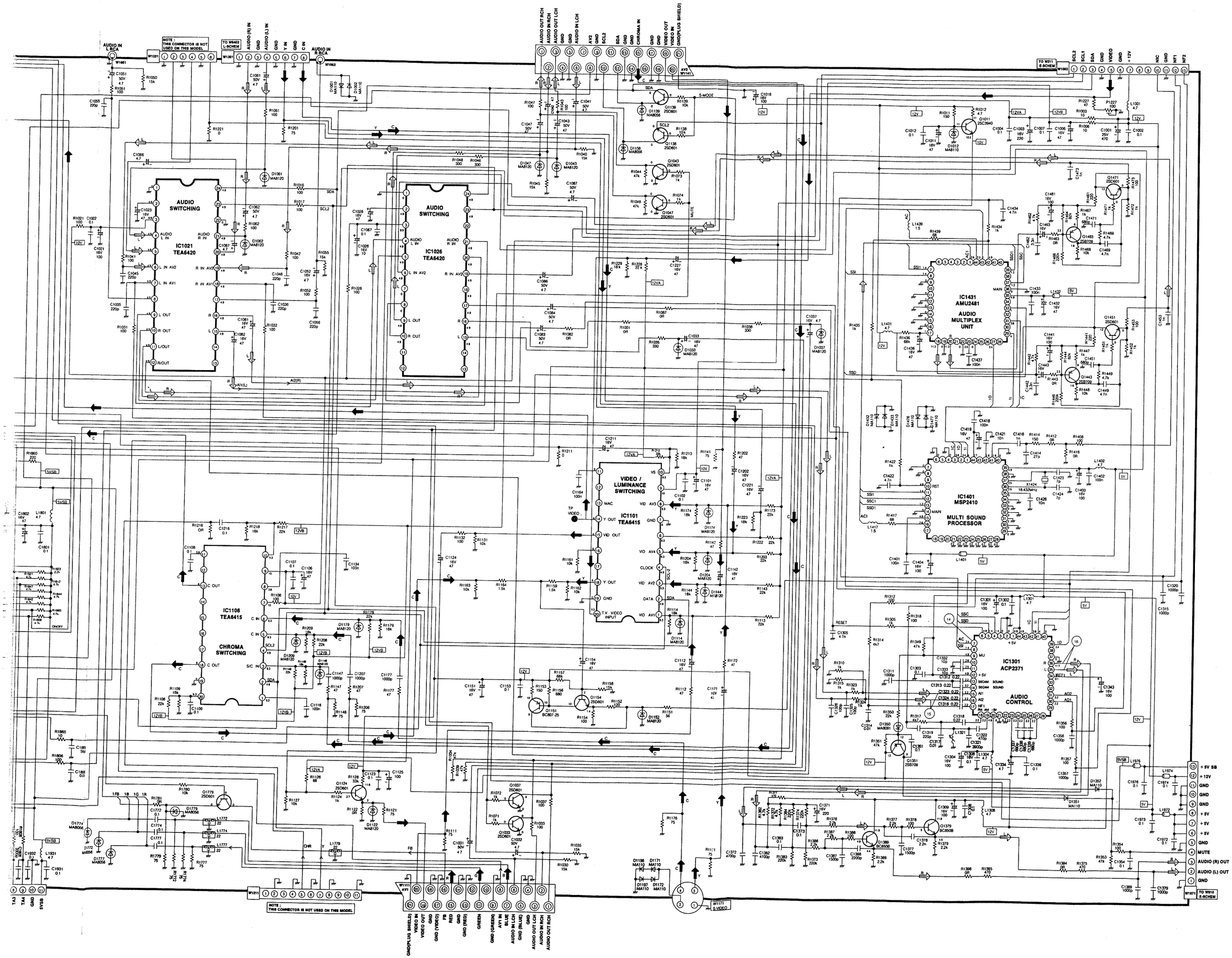
AUDIO IN L RCA

TO W611 E-SCHEM W1641

TO W3101 S-SCHEM W1751

W1651 FACTORY USE ONLY

(TO W6201) N-SCHEM W1831


AUDIO IN L RCA
AUDIO IN R RCA
NOTE : THIS CONNECTOR IS NOT USED ON THIS MODEL
TO W6402 L-SCHEM
AUDIO (R) IN
AUDIO (L) IN
Y IN
C IN
AUDIO OUT RCH
AUDIO IN RCH
AUDIO OUT LCH
AUDIO IN LCH
CHROMA IN
VIDEO OUT
VIDEO IN
GND(PLUG SHIELD)
TO W211 S-SCHEM
SCL2
SCL1
SDA
VIDEO
+12V
NIC
NF1
NF2
IC1021 TEA6420
AUDIO SWITCHING
IC1026 TEA6420
IC1106 TEA6415
CHROMA SWITCHING
IC1101 TEA6415
VIDEO / LUMINANCE SWITCHING
IC1431 AMU2481
AUDIO MULTIPLEX UNIT
IC1401 MSP2410
MULTI SOUND PROCESSOR
IC1301 ACP2371
AUDIO CONTROL
S-MODE
MUTE
TP VIDEO
TV VIDEO INPUT
S-VIDEO
NOTE : THIS CONNECTOR IS NOT USED ON THIS MODEL
+5V SB
+12V
GND
+5V
AUDIO (R) OUT
AUDIO (L) OUT
TO W910 E-SCHEM

E-BOARD ⚠
TX-25A3E TNP8EE002AL
TX-29A3E TNP8EE002AK

NOTE :
COMPONENTS MARKED WITH THE SYMBOL ✱ HAVE DIFFERENT VALUES BETWEEN THE MODELS TX-25A3E AND TX-29A3E. PLEASE SEE REAR OF PARTS LIST.

TO W9404 L-BOARD
W470
INTERNAL SPK L
GND
AUDIO OUT L
HEADPHONE L
HEADPHONE R
INTERNAL SPK R
GND
AUDIO OUT R
W489

TO W1971 A-BOARD
W610
GND L INPUT R INPUT MUTE GND +5V +5V +5V GND GND GND +12V +5V STAND BY

TO W1541 A-BOARD
W511
MUTE +14V ON/OFF V FLYBACK V IN GND V DRIVE GND E/W V SYNC H FLYBACK FP GND H DRIVE

TO W1003 A-BOARD
W211
SCL1 SDA GND VIDEO GND +12V NICAM GND NF1 NF2

TO W212
TO W213

AUDIO AMP
IC474 TDA2030A
IC484 TDA2030A

U201 UV916H/L
TUNER
IF PACK
TY-SWIF3
NF1 NORMAL STEREO
NF2 NORMAL STEREO
NICAM
FBAS

+30V
+12V
+5V
+20V
+150V +147V

TO W315 Y-BOARD
W544
SCREEN
EHT
FOCUS
TO PIN 1 W7002 V-BOARD TX-29A3E ONLY
TO PIN 3 W7002 V-BOARD TX-25A3E ONLY
W548
TO W317 Y-BOARD
TX29A3E +200V
(TX29A3E +210V)
HEATER
GND
GND

TO W1352 S-BOARD
W660
+147V
+27V
GND

+5VSB
+12V
+5V
+27V

IC691 AN78L05 5V REG.
IC666 TL431A
IC676 TL431A

TX-25A3E +150V
TX-29A3E +147V

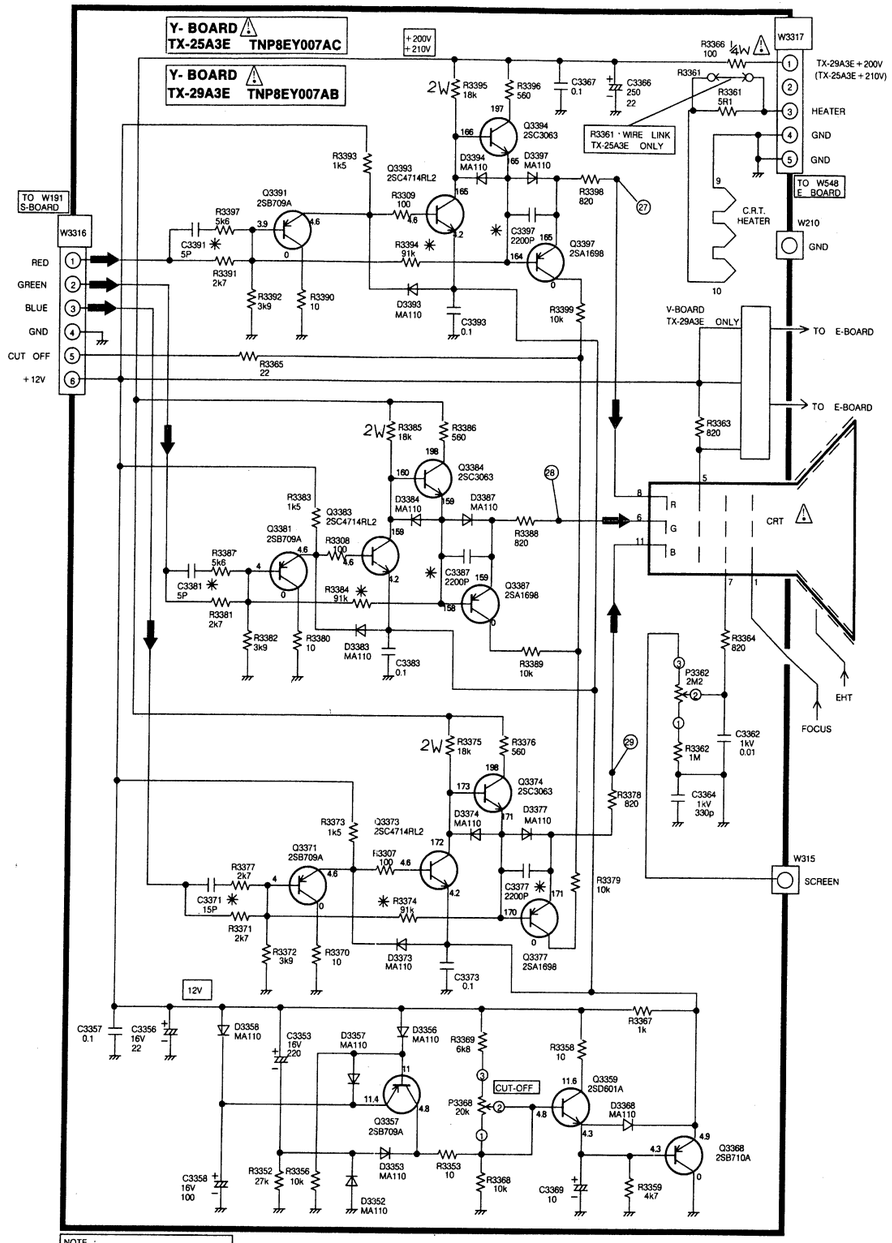
COLD
HOT

IC611 TDA4601 SWITCH-MODE POWER CONTROL

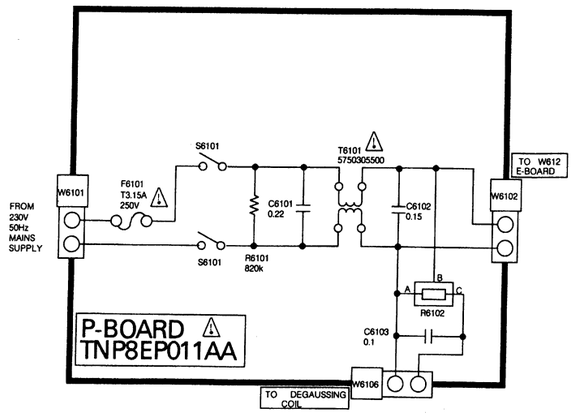
TO W6102 IP-BOARD
W612
230V AC 50Hz

IC561 TDA8175 VERTICAL OUTPUT
THERMAL PROTECT
FLYBACK GEN.
VARIABLE GAIN AMP
AMP
VOLT-AGE REF

NOTE: W534 CONNECTED TO W7005 ON THE W-BOARD TX-29A3E ONLY
TO DEFLECTION COILS
W534
+H OUTPUT
- H OUTPUT
TO DEFLECTION COILS
W569
+V OUTPUT
- V OUTPUT
NOTE: W569 CONNECTED TO W7003 ON THE W-BOARD TX-29A3E ONLY
S570 VERT CENT



NOTE :
COMPONENTS MARKED WITH THE SYMBOL ✳ HAVE DIFFERENT VALUES BETWEEN MODELS TX-29A3E AND TX-25A3E. PLEASE SEE REAR OF PARTS LIST.



WAVEFORM PATTERN TABLE

① Pin 4 IC1501 — 5.36Vp-p (64uS)	② Pin 20 IC1501 — 4.8Vp-p (20mS)	③ Pin 13 IC1501 — 1.14Vp-p (64uS)	④ Pin 6 IC1501 — 4.64Vp-p (20mS)
⑤ Pin 26 IC1501 — 4Vp-p (20mS)	⑥ Pin 2 IC1501 — 472mVp-p	⑦ Pin 2 IC1601 — 4.08Vp-p (64uS)	⑧ Pin 1 IC1631 — 4.48Vp-p (64uS)
⑨ Pin 15 IC1631 — 5.76Vp-p (64uS)	⑩ Pin 16 IC1631 — 840mVp-p (64uS)	⑪ Pin 25 IC1631 — 68.8mVp-p (64uS)	⑫ Pin 26 IC1631 — 68.8mVp-p (64.8uS)
⑬ Pin 3 IC1801 — 376mVp-p	⑭ Pin 7 IC1301 — 216mVp-p	⑮ Pins 15/16 IC1301 — 0.52Vp-p (1mS)	⑯ Pins 35/36 IC1301 — 10.8mVp-p (1.04mS)
⑰ O/P IC 474, 484 Audio — 232mVp-p (1.04ms)	⑱ Collector Q534 — 1500Vp-p (20uS)	⑲ Base Q534 — 0.5Vp-p (64uS)	⑳ Collector drive Q593 — 52.8Vp-p (64uS)
㉑ Base drive Q526 — 1.72Vp-p (64uS)	㉒ Base Q583 — 1500Vp-p (20mS)	㉓ Collector Q593 — 12V p-p (20mS)	㉔ Pin 1 IC661 — 1.24Vp-p (20.2mS)
㉕ Pin 5 IC661 — 5.04Vp-p (20.2mS)	㉖ Pin 6 IC661 — 1.96Vp-p (20mS)	㉗ RED drive — 150Vp-p (20uS)	㉘ GREEN drive — 140Vp-p (20uS)
㉙ BLUE drive — 130Vp-p (20uS)			

B-BOARD ⚠
TNP8EB004

IC4502
TSA5514AT/C2
CONTROL

IC4700
TDA3853T
IF VIDEO

IC4800
TDA3857
IF AUDIO

W1001 CONNECTED DIRECTLY TO E-BOARD

M-BOARD ⚠
TNP8EM009AA

D6301
LN81RPHL
STANDBY

IR RECEIVER
U6301

S6301 PRG -
S6304 PRG +
S6302 A/V F
S6305 PRE
S6307 VOL -
S6309 VOL +
S6303 NORM
S6306 STORE
S6308 TV/AV

TO W6201 N-BOARD
GND GND T4 T3 T2 T1 T0 REMOTE SIG REM RECEIVE 5V STANDBY GND
W6301

NOTE:
THIS BOARD IS USED ON TX-29A3E ONLY

E-PCB
TNP8EE002

V-PCB ⚠
TNP8EV001
USED IN PLACE OF R3363
TO Y-PCB
W7001

S - BOARD ⚠
TX-25A3E TNP8ES012AB
TX-29A3E TNP8ES012AC

COMPONENTS MARKED WITH THIS SYMBOL ✱ HAVE DIFFERENT VALUES BETWEEN MODELS TX-29A3E AND TX-25A3E. PLEASE SEE REAR OF PARTS LIST.

TO W751 A-BOARD
W3101 RED GREEN BLUE GND CUT OFF +12V

TO W660 E-BOARD
W3152 TX-29A3E +147V (TX-25A3E +150V) +27V GND

TO W316 V-BOARD
W3191 RED GREEN BLUE GND CUT OFF +12V

TO DEFLECTION COIL
W3146 BLUE WIRE WHITE WIRE

NOTE:
CAPACITORS C3126 / C3129 ARE NOT USED ON TX-29A3E

W-PCB ⚠
TNP8EW001

DY FRAME 7
DY FRAME 5
W7004

W7003 V-RED V-GREEN
W569 E-BOARD

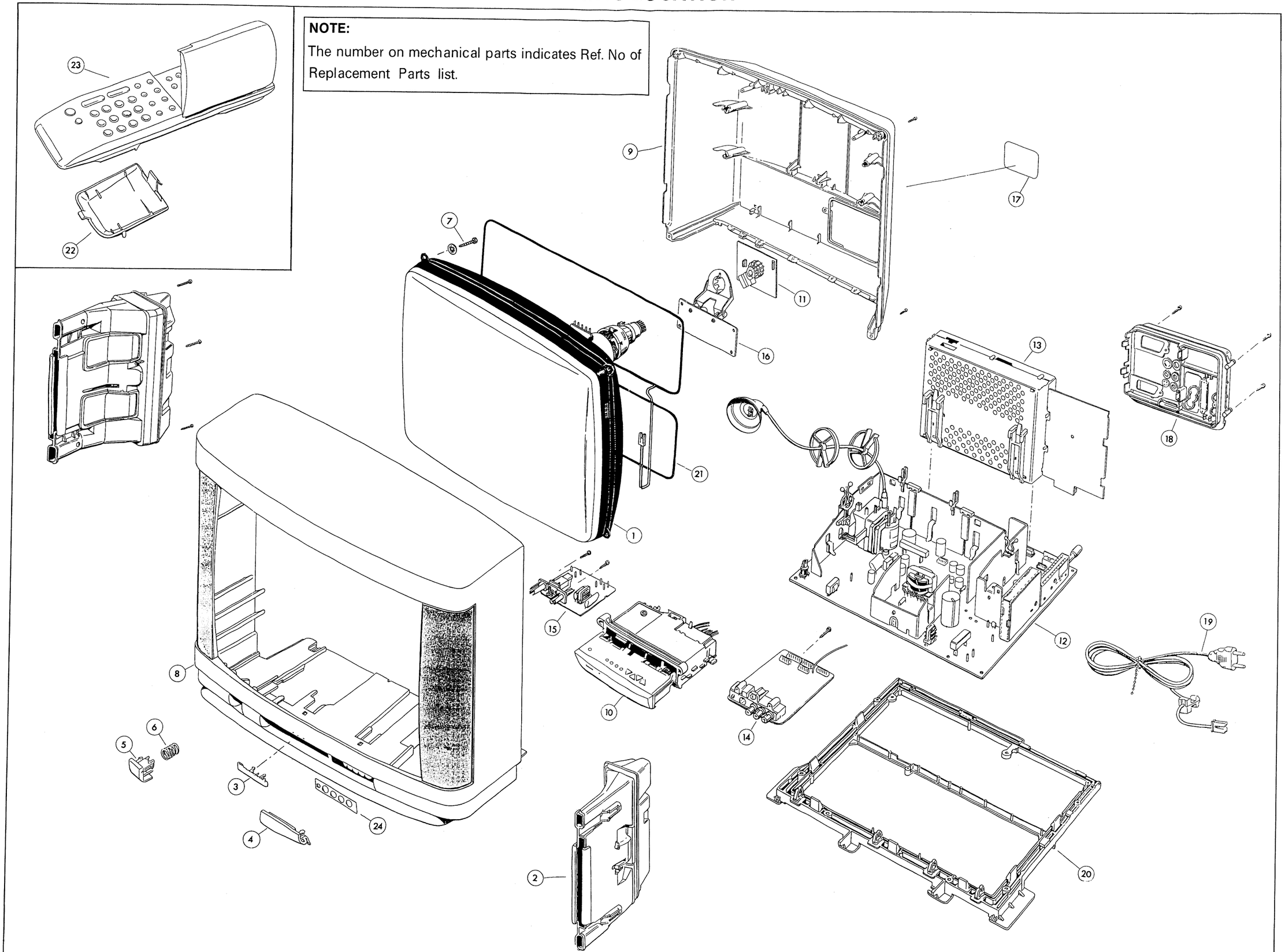
W7005 + 147V + 147V H-YELLOW H-BLUE
W534 E-BOARD

(- 150V) + 147V DY LINE 1 DY LINE 3
W7006

NOTE:
THIS BOARD IS ONLY USED ON THE TX-29A3E

PARTS LOCATION

NOTE:
The number on mechanical parts indicates Ref. No of Replacement Parts list.



REPLACEMENT PARTS LIST

Important Safety Notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Ref No.	Part No.	Description
MISCELLANEOUS COMPONENTS		
1)	A68ESF002X11	CRT ⚠
2)	EAB1083J	SPEAKER ASSY L / R SIDE
3)	TBM153015	AV DOOR LID
4)	TKP8E1089	AV BLIND SHEET
5)	TBX8E013	POWER BUTTON
6)	TES2268	POWER BUTTON SPRING
7)	THT1009R	CRT FIXING NUT
8)	TKY8E018	CABINET ⚠
9)	TKU8E00138	REAR COVER ⚠
10)	TKK8E01A	TRAY ASSY
11)	TNP8EY007AB	Y P.C.B. ⚠
12)	TNP8EE002AK	E PCB ⚠
13)	TNP8EA003AU	A PCB ⚠
14)	TNP8EL010AA	L P.C.B. ⚠
15)	TNP8EP011AA	P P.C.B. ⚠
16)	TNP8ES012AC	S P.C.B. ⚠
17)	TBM8E1286	REAR COVER LABEL
18)	TUX8E005	REAR AV PANEL
19)	TSX8E0011	MAINS LEAD ⚠
20)	TMX8E006	CHASSIS BRACKET
21)	TLK8E05113	DEGAUSSING COIL
22)	UR51EC749	REMOTE CONTROL BATTERY COVER
23)	TNQ8E0453-1	REMOTE CONTROL
24)	TBM8E1261	AV LABEL
	TNP8EV001	V P.C.B. ⚠
	TNP8EW001	W P.C.B. ⚠
U201	UV916H/L	TUNER ⚠
	TY-SVIF3	VIF PACK ⚠
	TKP181257	TRAY ASSY BUTTON COVER
	TKP1812581	TRAY ASSY FRONT COVER
	TKP1812867	TRAY ASSY SMOKE PANEL
	TQB8E0762	INST, BOOK (PORTUGAL) ⚠
	TQB8E0823	INST, BOOK (DENMARK / FINLAND) ⚠
	TQB8E0824	INST, BOOK (SWEDEN) ⚠
	TQB8E0825	INST, BOOK (NORWAY) ⚠
	TQB8E0826	INST, BOOK (SPAIN) ⚠
	TQB8E0827	INST, BOOK (BELGIUM) ⚠
	TPC8E4399	OUTER CARTON
	TPD8E562	TOP CUSHION
	TPD8E563	BOTTOM CUSHION
	TEK6935	LID SWITCH
F656	TR5-T1000	FUSE ⚠
F661	TR5-T2000	FUSE ⚠
F671	TR5-T6300	FUSE ⚠
F681	TR5-T500	FUSE ⚠
F-101	EYF52BC	FUSE HOLDER ⚠
F6101	2153.15H	FUSE ⚠

DIFFERENCE LIST FOR TX-25A3E

MISCELLANEOUS COMPONENTS		
1)	A59EAK252X21	CRT ⚠
8)	TKY8E017	CABINET ⚠
9)	TKU8E00137	REAR COVER ⚠
11)	TNP8EY007AC	Y P.C.B. ⚠
12)	TNP8EE002AL	E PCB ⚠
13)	TNP8EA003AJ	A PCB ⚠
16)	TNP8ES012AB	S P.C.B. ⚠

Ref No.	Part No.	Description
17)	TBM8E1282	REAR COVER LABEL
21)	TLK8E012501	DEGAUSSING COIL
	TPC8E4398	OUTER CARTON
	TPD8E561	TOP CUSHION
	TPD8E560	BOTTOM CUSHION

CAPACITORS

C201	ECEA1CU470	ELECT	16V	47µF	
C202	ECQB1H104J	FILM	50V	100nF	
C203	ECEA1CU221	ELECT	16V	220µF	
C204	ECQB1H104J	FILM	50V	100nF	
C206	ECEA1HU010	ELECT	50V	1µF	
C207	ECQB1H104J	FILM	50V	100nF	
C208	ECQB1H104J	FILM	50V	100nF	
C466	ECEA1VU222	ELECT	35V	2200µF	
C467	ECKC1H223J	CERAMIC	50V	22nF	
C468	ECEA1VU222	ELECT	35V	2200µF	
C469	ECKC1H223J	CERAMIC	50V	22nF	
C470	ECQB1H273J	FILM	50V	27nF	
C471	ECEA1HU010	ELECT	50V	1µF	
C472	ECEA1CU220	ELECT	16V	22µF	
C473	ECQB1H273J	FILM	50V	27nF	
C474	ECQB1H103J	FILM	50V	10nF	
C476	ECEA1HU010	ELECT	50V	1µF	
C477	ECQM1H224J	FILM	50V	220nF	
C478	ECKC1H222J	CERAMIC	50V	2.2nF	
C479	ECQM1H224J	FILM	50V	220nF	
C480	ECQB1H273J	FILM	50V	27nF	
C481	ECEA1HU010	ELECT	50V	1µF	
C482	ECEA1CU220	ELECT	16V	22µF	
C483	ECQB1H273J	FILM	50V	27nF	
C484	ECQB1H103J	FILM	50V	10nF	
C486	ECEA1HU010	ELECT	50V	1µF	
C487	ECQM1H224J	FILM	50V	220nF	
C488	ECKC1H222J	CERAMIC	50V	2.2nF	
C489	ECQM1H224J	FILM	50V	220nF	
C492	ECEA1HU4R7	ELECT	50V	4.7µF	
C521	ECEA1HU101	ELECT	50V	100µF	
C524	ECQV1H105JZ	FILM	50V	1µF	
C527	ECQM2683JZ	FILM	250V	68nF	
C531	ECQM2564KZ	FILM	250V	560nF	
C534	ECKC3D332J	CERAMIC	2kV	3300pF	⚠
C536	ECWH12H103J	FILM	1250V	10nF	⚠
C537	ECQF6223J	FILM	630V	22nF	
C538	ECWF2H514J	FILM	500V	510nF	⚠
C541	ECWF2H105J	FILM	500V	1µF	⚠
C543	ECEA2VU2R2	ELECT	350V	2.2µF	
C544	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C547	ECKC2H101J	CERAMIC	500V	100pF	⚠
C548	ECEA2EU220	ELECT	250V	22µF	
C549	ECEA1HN2R2	ELECT	50V	2.2µF	
C557	ECKC2H101J	CERAMIC	500V	100pF	⚠
C558	ECEA1HU222	ELECT	50V	2200µF	
C561	ECEA1VFE272Y	ELECT	35V	2700µF	
C562	ECQB1H104J	FILM	50V	100nF	
C563	ECEA1VU221	ELECT	35V	220µF	
C564	ECQB1H473K	FILM	50V	47nF	
C567	ECQB1H223K	FILM	50V	22nF	
C568	ECQM1H224J	FILM	50V	220nF	
C574	ECEA1VU332	ELECT	35V	3300µF	
C576	ECQM1H684J	FILM	50V	680nF	

Ref No.	Part No.	Description			
C577	ECQV1H105JZ	FILM	50V	1μF	
C578	ECQM1H154J	FILM	50V	150nF	
C579	ECQB1H472J	FILM	50V	4.7nF	
C581	ECEA1HU101	ELECT	50V	100μF	
C582	ECQB1H104J	FILM	50V	100nF	
C593	ECEA1HGE4R7	ELECT	50V	4.7μF	
C594	ECQB1H104J	FILM	50V	100nF	
C597	ECQB1H103J	FILM	50V	10nF	
C617	ECQM4334JZ	FILM	400V	330nF	
C618	ECOS2GA221CA	ELECT	400V	220μF	
C622	ECEA1EU101	ELECT	25V	100μF	
C623	ECEA1HU101	ELECT	50V	100μF	
C626	ECKC3A222J	CERAMIC	1KV	2200pF	⚠
C627	ECQB1H103J	FILM	50V	10nF	
C628	ECQB1H104J	FILM	50V	100nF	
C629	ECCR1H560J	CERAMIC	50V	56pF	
C631	ECEA1CU101	ELECT	16V	100μF	
C632	ECCR1H101J	CERAMIC	50V	100pF	
C633	ECQB1H103J	FILM	50V	10nF	
C634	ECEA1HU010	ELECT	50V	1μF	
C636	ECQB1H223K	FILM	50V	22nF	
C639	ECKCNS332J	CERAMIC	1.2KV	3.3nF	⚠
C650	ECKC3A332J	CERAMIC	1KV	3.3nF	⚠
C651	ECEA2EGE470	ELECT	250V	47μF	
C652	ECEA2EU470	ELECT	250V	47μF	
C656	ECKC2H681J	CERAMIC	500V	680pF	⚠
C657	ECEA1HGE101	ELECT	50V	100μF	
C662	ECEA1EU102	ELECT	25V	1000μF	
C668	ECEA1CU221	ELECT	16V	220μF	
C672	ECEA1EGE222	ELECT	25V	2200μF	
C673	ECQM1H334J	FILM	50V	330nF	
C677	ECEA1CU221	ELECT	16V	220μF	
C681	ECEA1HU221	ELECT	50V	220μF	
C687	ECEA1HU471	ELECT	50V	470μF	
C689	ECQB1H104J	FILM	50V	100nF	
C691	ECEA1EU221	ELECT	25V	220μF	
C692	ECQM1H334J	FILM	50V	330nF	
C693	ECQM1H334J	FILM	50V	330nF	
C694	ECEA1CU221	ELECT	16V	220μF	
C697	ECEA1HU100	ELECT	50V	10μF	
C1001	ECEA1EU471	ELECT	25V	470μF	
C1002	ECUV1H104KBW	CERAMIC	50V	100nF	
C1003	ECEA1CU221	ELECT	16V	220μF	
C1004	ECUV1H104KBW	CERAMIC	50V	100nF	
C1006	ECEA1CU470	ELECT	16V	47μF	
C1007	ECUV1H104KBW	CERAMIC	50V	100nF	
C1011	ECEA1CU470	ELECT	16V	47μF	
C1012	ECUV1H104KBW	CERAMIC	50V	100nF	
C1016	ECEA1CU101	ELECT	16V	100μF	
C1021	ECEA1CU101	ELECT	16V	100μF	
C1022	ECUV1H104KBW	CERAMIC	50V	100nF	
C1023	ECEA1CU470	ELECT	16V	47μF	
C1026	ECEA1CU101	ELECT	16V	100μF	
C1027	ECUV1H104KBW	CERAMIC	50V	100nF	
C1028	ECEA1CU470	ELECT	16V	47μF	
C1031	ECEA1HU4R7	ELECT	50V	4.7μF	
C1032	ECEA1HU4R7	ELECT	50V	4.7μF	
C1033	ECEA1CU470	ELECT	16V	47μF	
C1035	ECUV1H221JCX	CERAMIC	50V	220pF	
C1036	ECUV1H221JCX	CERAMIC	50V	220pF	
C1037	ECEA1CU470	ELECT	16V	47μF	
C1041	ECEA1HU4R7	ELECT	50V	4.7μF	
C1042	ECEA1HU4R7	ELECT	50V	4.7μF	
C1043	ECEA1CU470	ELECT	16V	47μF	
C1045	ECUV1H221JCX	CERAMIC	50V	220pF	
C1046	ECUV1H221JCX	CERAMIC	50V	220pF	
C1047	ECEA1CU470	ELECT	16V	47μF	
C1051	ECEA1HU4R7	ELECT	50V	4.7μF	
C1051	ECUV1E104ZFM	S.M. CAP	25V	100nF	
C1052	ECEA1HU4R7	ELECT	50V	4.7μF	

Ref No.	Part No.	Description		
C1052	ECUV1H102KBX	CERAMIC	50V	1000pF
C1053	ECUV1E683MBH	S.M. CAP	25V	68nF
C1055	ECUV1H221JCX	CERAMIC	50V	220pF
C1056	ECUV1H221JCX	CERAMIC	50V	220pF
C1061	ECEA1HU4R7	ELECT	50V	4.7μF
C1062	ECEA1HU4R7	ELECT	50V	4.7μF
C1066	ECEA1HU4R7	ELECT	50V	4.7μF
C1067	ECEA1HU4R7	ELECT	50V	4.7μF
C1081	ECEA1CU470	ELECT	16V	47μF
C1082	ECEA1CU470	ELECT	16V	47μF
C1083	ECEA1HU4R7	ELECT	50V	4.7μF
C1084	ECEA1HU4R7	ELECT	50V	4.7μF
C1086	ECEA1HU4R7	ELECT	50V	4.7μF
C1087	ECEA1HU4R7	ELECT	50V	4.7μF
C1101	ECEA1CU470	ELECT	16V	47μF
C1102	ECUV1H104KBW	CERAMIC	50V	100nF
C1106	ECEA1CU470	ELECT	16V	47μF
C1107	ECUV1H104KBW	CERAMIC	50V	100nF
C1108	ECUV1H104KBW	CERAMIC	50V	100nF
C1109	ECUV1H104KBW	CERAMIC	50V	100nF
C1112	ECEA1CU470	ELECT	16V	47μF
C1116	ECUV1H104KBW	CERAMIC	50V	100nF
C1123	ECUV1H104KBW	CERAMIC	50V	100nF
C1124	ECEA1CU470	ELECT	16V	47μF
C1125	ECEA1CU101	ELECT	16V	100μF
C1134	ECUV1H104KBW	CERAMIC	50V	100nF
C1142	ECEA1CU470	ELECT	16V	47μF
C1147	ECUV1H102KBW	CERAMIC	50V	1000pF
C1151	ECEA1CU470	ELECT	16V	47μF
C1153	ECUV1H104KBW	CERAMIC	50V	100nF
C1154	ECEA1CU470	ELECT	16V	47μF
C1164	ECUV1H104KBW	CERAMIC	50V	100nF
C1171	ECEA1CU470	ELECT	16V	47μF
C1177	ECUV1H102KBW	CERAMIC	50V	1000pF
C1202	ECEA1CU470	ELECT	16V	47μF
C1207	ECUV1H102KBW	CERAMIC	50V	1000pF
C1211	ECEA1CU470	ELECT	16V	47μF
C1216	ECUV1H104KBW	CERAMIC	50V	100nF
C1221	ECEA1CU470	ELECT	16V	47μF
C1227	ECEA1CU470	ELECT	16V	47μF
C1239	ECUV1H104KBW	CERAMIC	50V	100nF
C1241	ECUV1H104KBW	CERAMIC	50V	100nF
C1244	ECEA1CU470	ELECT	16V	47μF
C1245	ECUV1H104KBW	CERAMIC	50V	100nF
C1253	ECUV1H104KBW	CERAMIC	50V	100nF
C1301	ECEA1CU101	ELECT	16V	100μF
C1302	ECUV1H104KBW	CERAMIC	50V	100nF
C1303	ECUV1H104KBW	CERAMIC	50V	100nF
C1304	ECEA1CU101	ELECT	16V	100μF
C1305	ECUV1H472KBW	CERAMIC	50V	4700pF
C1306	ECUV1H104KBW	CERAMIC	50V	100nF
C1308	ECUV1H104KBW	CERAMIC	50V	100nF
C1309	ECEA1CU101	ELECT	16V	100μF
C1311	ECUV1H102KBW	CERAMIC	50V	1000pF
C1312	ECQM1H224J	FILM	50V	220nF
C1313	ECQM1H224J	FILM	50V	220nF
C1314	ECYY1H103JCW	CERAMIC	50V	10nF
C1315	ECUV1H102KBW	CERAMIC	50V	1000pF
C1316	ECQM1H224J	FILM	50V	220nF
C1317	ECYY1H103JCW	CERAMIC	50V	10nF
C1318	ECQM1H224J	FILM	50V	220nF
C1319	ECUV1H221JCW	CERAMIC	50V	220pF
C1320	ECUV1H102KBW	CERAMIC	50V	1000pF
C1321	ECUV1H392KBW	CERAMIC	50V	3900pF
C1322	ECUV1H471JCW	CERAMIC	50V	470pF
C1323	ECQM1H224J	FILM	50V	220nF
C1324	ECQM1H224J	FILM	50V	220nF
C1325	ECUV1H101JCW	CERAMIC	50V	100pf
C1326	ECUV1H101JCW	CERAMIC	50V	100pf
C1332	ECUV1H100DCW	CERAMIC	50V	10pF

Ref No.	Part No.	Description		
C1333	ECUV1H100DCW	CERAMIC	50V	10pF
C1334	ECEA1HU4R7	ELECT	50V	4.7μF
C1336	ECUV1H104KBW	CERAMIC	50V	100nF
C1337	ECUV1H681JCW	CERAMIC	50V	680pF
C1338	ECUV1H681JCW	CERAMIC	50V	680pF
C1339	ECUV1H681JCW	CERAMIC	50V	680pF
C1343	ECEA1CU101	ELECT	16V	100μF
C1351	ECUV1H104KBW	CERAMIC	50V	100nF
C1354	ECUV1H104KBW	CERAMIC	50V	100nF
C1356	ECUV1H102KBW	CERAMIC	50V	1000pF
C1357	ECUV1H102KBW	CERAMIC	50V	1000pF
C1371	ECEA1CU221	ELECT	16V	220μF
C1372	ECUV1H472JCW	CERAMIC	50V	4.7nF
C1373	ECQB1H104J	FILM	50V	100nF
C1377	ECUV1H152JCW	CERAMIC	50V	1.5nF
C1378	ECUV1H222JCW	CERAMIC	50V	2.2nF
C1379	ECUV1H102KBW	CERAMIC	50V	1000pF
C1382	ECUV1H472JCW	CERAMIC	50V	4.7nF
C1383	ECQB1H104J	FILM	50V	100nF
C1387	ECUV1H152JCW	CERAMIC	50V	1.5nF
C1388	ECUV1H222JCW	CERAMIC	50V	2.2nF
C1389	ECUV1H102KBW	CERAMIC	50V	1000pF
C1401	ECUV1H104KBW	CERAMIC	50V	100nF
C1402	ECUV1H104KBW	CERAMIC	50V	100nF
C1403	ECEA1CU101	ELECT	16V	100μF
C1404	ECEA1CU101	ELECT	16V	100μF
C1414	ECUV1H270JCW	CERAMIC	50V	27pF
C1416	ECUV1H102KBW	CERAMIC	50V	1000pF
C1418	ECUV1H104KBW	CERAMIC	50V	100nF
C1419	ECEA1CU470	ELECT	16V	47μF
C1421	ECUV1H103KBW	CERAMIC	50V	10nF
C1422	ECUV1H472KBW	CERAMIC	50V	4700pF
C1423	ECUV1H070DCW	CERAMIC	50V	7pF
C1424	ECUV1H070DCW	CERAMIC	50V	7pF
C1426	ECUV1H103KBW	CERAMIC	50V	10nF
C1432	ECEA1CU470	ELECT	16V	47μF
C1433	ECUV1H104KBW	CERAMIC	50V	100nF
C1434	ECUV1H472KBW	CERAMIC	50V	4700pF
C1436	ECEA1CU470	ELECT	16V	47μF
C1437	ECUV1H104KBW	CERAMIC	50V	100nF
C1441	ECEA1CU101	ELECT	16V	100μF
C1442	ECUV1H332KBW	CERAMIC	50V	3300pF
C1443	ECEA1HU010	ELECT	50V	1μF
C1449	ECUV1H472KBW	CERAMIC	50V	4700pF
C1451	ECUV1H681JCW	CERAMIC	50V	680pF
C1453	ECUV1H102KBW	CERAMIC	50V	1000pF
C1461	ECEA1CU101	ELECT	16V	100μF
C1462	ECUV1H332KBW	CERAMIC	50V	3300pF
C1463	ECEA1HU010	ELECT	50V	1μF
C1469	ECUV1H472KBW	CERAMIC	50V	4700pF
C1471	ECUV1H681JCW	CERAMIC	50V	680pF
C1473	ECUV1H102KBW	CERAMIC	50V	1000pF
C1501	ECUV1H104KBW	CERAMIC	50V	100nF
C1502	ECUV1H104KBW	CERAMIC	50V	100nF
C1503	ECEA1CU101	ELECT	16V	100μF
C1504	ECUV1H472KBW	CERAMIC	50V	4700pF
C1506	ECUV1H100DCW	CERAMIC	50V	10pF
C1507	ECUV1H560JCW	CERAMIC	50V	56pF
C1508	ECUV1H102KBW	CERAMIC	50V	1000pF
C1509	ECUV1H471JCW	CERAMIC	50V	470pF
C1511	ECUV1H270JCW	CERAMIC	50V	27pF
C1516	ECUV1H100DCW	CERAMIC	50V	10pF
C1517	ECUV1H104KBW	CERAMIC	50V	100nF
C1519	ECUV1H104KBW	CERAMIC	50V	100nF
C1521	ECUV1H473KBW	CERAMIC	50V	47nF
C1522	ECUV1H104KBW	CERAMIC	50V	100nF
C1526	ECUV1H102KBW	CERAMIC	50V	1000pF
C1538	ECUV1H100DCW	CERAMIC	50V	10pF
C1539	ECUV1H104KBW	CERAMIC	50V	100nF
C1601	ECUV1H103KBW	CERAMIC	50V	10nF
C1602	ECEA1CU101	ELECT	16V	100μF

Ref No.	Part No.	Description		
C1603	ECUV1H104KBW	CERAMIC	50V	100nF
C1604	ECUV1H104KBW	CERAMIC	50V	100nF
C1605	ECUV1H104KBW	CERAMIC	50V	100nF
C1606	ECUV1H221JCW	CERAMIC	50V	220pF
C1607	ECUV1H330JCW	CERAMIC	50V	33pF
C1608	ECUV1H331JCW	CERAMIC	50V	330pF
C1609	ECUV1H101JCW	CERAMIC	50V	100pf
C1611	ECUV1H151JCW	CERAMIC	50V	150pF
C1612	ECEA1HU4R7	ELECT	50V	4.7μF
C1616	ECUV1H270JCW	CERAMIC	50V	27pF
C1617	ECUV1H104KBW	CERAMIC	50V	100nF
C1619	ECUV1H103KBW	CERAMIC	50V	10nF
C1620	ECEA1CU470	ELECT	16V	47μF
C1622	ECEA1CU101	ELECT	16V	100μF
C1623	ECUV1H104KBW	CERAMIC	50V	100nF
C1624	ECUV1H104KBW	CERAMIC	50V	100nF
C1631	ECUV1H104KBW	CERAMIC	50V	100nF
C1632	ECUV1H470JCW	CERAMIC	50V	47pF
C1634	ECUV1H470JCW	CERAMIC	50V	47pF
C1635	ECUV1H472KBW	CERAMIC	50V	4700pF
C1638	ECUV1H104KBW	CERAMIC	50V	100nF
C1639	ECEA1CU221	ELECT	16V	220μF
C1642	ECUV1H104KBW	CERAMIC	50V	100nF
C1648	ECEA1HU4R7	ELECT	50V	4.7μF
C1651	ECUV1H104KBW	CERAMIC	50V	100nF
C1652	ECEA1CU470	ELECT	16V	47μF
C1661	ECUV1H104KBW	CERAMIC	50V	100nF
C1662	ECUV1H104KBW	CERAMIC	50V	100nF
C1664	ECUV1H472KBW	CERAMIC	50V	4700pF
C1671	ECEA1CU470	ELECT	16V	47μF
C1672	ECUV1H104KBW	CERAMIC	50V	100nF
C1673	ECUV1H104KBW	CERAMIC	50V	100nF
C1674	ECEA1CU470	ELECT	16V	47μF
C1676	ECEA1CU470	ELECT	16V	47μF
C1677	ECUV1H104KBW	CERAMIC	50V	100nF
C1678	ECUV1H102KBW	CERAMIC	50V	1000pF
C1681	ECUV1H101JCW	CERAMIC	50V	100pf
C1682	ECUV1H103KBW	CERAMIC	50V	10nF
C1687	ECUV1H151JCW	CERAMIC	50V	150pF
C1701	ECUV1H102KBW	CERAMIC	50V	1000pF
C1702	ECUV1H102KBW	CERAMIC	50V	1000pF
C1706	ECUV1H104KBW	CERAMIC	50V	100nF
C1726	ECUV1H104KBW	CERAMIC	50V	100nF
C1727	ECEA1EU471	ELECT	25V	470μF
C1729	ECEA1CU101	ELECT	16V	100μF
C1731	ECUV1H104KBW	CERAMIC	50V	100nF
C1751	ECUV1H104KBW	CERAMIC	50V	100nF
C1752	ECUV1H104KBW	CERAMIC	50V	100nF
C1761	ECEA1CU470	ELECT	16V	47μF
C1762	ECUV1H104KBW	CERAMIC	50V	100nF
C1763	ECUV1H104KBW	CERAMIC	50V	100nF
C1764	ECUV1H472KBW	CERAMIC	50V	4700pF
C1766	ECUV1H104KBW	CERAMIC	50V	100nF
C1767	ECUV1H560JCW	CERAMIC	50V	56pF
C1768	ECUV1H102KBW	CERAMIC	50V	1000pF
C1771	ECUV1H104KBW	CERAMIC	50V	100nF
C1772	ECUV1H104KBW	CERAMIC	50V	100nF
C1773	ECUV1H101JCW	CERAMIC	50V	100pf
C1774	ECUV1H104KBW	CERAMIC	50V	100nF
C1776	ECEA1CU470	ELECT	16V	47μF
C1777	ECUV1H104KBW	CERAMIC	50V	100nF
C1786	ECUV1H104KBW	CERAMIC	50V	100nF
C1792	ECUV1H104KBW	CERAMIC	50V	100nF
C1801	ECUV1H104KBW	CERAMIC	50V	100nF
C1802	ECEA1CU470	ELECT	16V	47μF
C1806	ECUV1H103KBW	CERAMIC	50V	10nF
C1808	ECUV1H332KBW	CERAMIC	50V	3300pF
C1811	ECUV1H332KBW	CERAMIC	50V	3300pF
C1816	ECUV1H102KBW	CERAMIC	50V	1000pF
C1826	ECUV1H102KBW	CERAMIC	50V	1000pF
C1836	ECUV1H332KBW	CERAMIC	50V	3300pF

Ref No.	Part No.	Description			
C1838	ECUV1H332KBW	CERAMIC	50V	3300pF	
C1841	ECUV1H332KBW	CERAMIC	50V	3300pF	
C1843	ECUV1H332KBW	CERAMIC	50V	3300pF	
C1846	ECUV1H332KBW	CERAMIC	50V	3300pF	
C1849	ECEA1HU4R7	ELECT	50V	4.7μF	
C1851	ECUV1H470JCW	CERAMIC	50V	47pF	
C1853	ECUV1H220JCW	CERAMIC	50V	22pF	
C1854	ECUV1H220JCW	CERAMIC	50V	22pF	
C1856	ECUV1H472KBW	CERAMIC	50V	4700pF	
C1857	ECUV1H470JCW	CERAMIC	50V	47pF	
C1858	ECUV1H104KBW	CERAMIC	50V	100nF	
C1860	ECUV1H104KBW	CERAMIC	50V	100nF	
C1861	ECUV1H104KBW	CERAMIC	50V	100nF	
C1871	ECUV1H104KBW	CERAMIC	50V	100nF	
C1885	ECUV1H560JCW	CERAMIC	50V	56pF	
C1887	ECUV1H560JCW	CERAMIC	50V	56pF	
C1888	ECUV1H104KBW	CERAMIC	50V	100nF	
C1889	ECUV1H560JCW	CERAMIC	50V	56pF	
C1899	ECUV1H102KBW	CERAMIC	50V	1000pF	
C1922	ECUV1H104KBW	CERAMIC	50V	100nF	
C1925	ECUV1H104KBW	CERAMIC	50V	100nF	
C1931	ECUV1H104KBW	CERAMIC	50V	100nF	
C1932	ECUV1H104KBW	CERAMIC	50V	100nF	
C1941	ECUV1H104KBW	CERAMIC	50V	100nF	
C1942	ECEA1CU470	ELECT	16V	47μF	
C1961	ECEA1CU221	ELECT	16V	220μF	
C1962	ECEA1CU470	ELECT	16V	47μF	
C1964	ECEA1CU470	ELECT	16V	47μF	
C1972	ECUV1H104KBW	CERAMIC	50V	100nF	
C1973	ECUV1H104KBW	CERAMIC	50V	100nF	
C1974	ECUV1H104KBW	CERAMIC	50V	100nF	
C1976	ECUV1H104KBW	CERAMIC	50V	100nF	
C1978	ECUV1H104KBW	CERAMIC	50V	100nF	
C3101	ECUV1H030CCM	CERAMIC	50V	3pF	
C3102	ECUV1H103KBM	CERAMIC	50V	10nF	
C3103	ECEA1HU100	ELECT	50V	10μF	
C3122	ECUV1H102KBM	S.M. CAP	50V	1nF	
C3124	ECUV1H471JCH	CERAMIC	50V	470pF	
C3131	ECKC2H471J	CERAMIC	500V	470pF	⚠
C3134	ECEA1CU101	ELECT	16V	100μF	
C3136	ECKC2H471J	CERAMIC	500V	470pF	⚠
C3139	ECEA1CU101	ELECT	16V	100μF	
C3141	ECEA1CU471	ELECT	16V	470μF	
C3143	ECEA1CU100	ELECT	16V	10μF	
C3144	ECEA1CU470	ELECT	16V	47μF	
C3146	ECEA2EU220	ELECT	250V	22μF	
C3152	ECEA2EU220	ELECT	250V	22μF	
C3153	ECEA1JU101	ELECT	63V	100μF	
C3167	ECUV1H470JCM	S.M. CAP	50V	47pF	
C3168	ECUV1H103KBM	CERAMIC	50V	10nF	
C3169	ECEA1CU100	ELECT	16V	10μF	
C3177	ECUV1H470JCM	S.M. CAP	50V	47pF	
C3178	ECUV1H103KBM	CERAMIC	50V	10nF	
C3179	ECEA1CU100	ELECT	16V	10μF	
C3187	ECUV1H470JCM	S.M. CAP	50V	47pF	
C3188	ECUV1H103KBM	CERAMIC	50V	10nF	
C3189	ECEA1CU100	ELECT	16V	10μF	
C3191	ECUV1H104KBW	CERAMIC	50V	100nF	
C3192	ECEA1CU470	ELECT	16V	47μF	
C3362	TACA1103P2KV	NETWORK COMPONENT			
C3363	TACA1103P2KV	NETWORK COMPONENT			
C3364	ECKC3A331J	CERAMIC	1000V	330pF	⚠
C3367	ECQM2104KZ	FILM	250V	100nF	
C4501	ECUV1H104KBW	CERAMIC	50V	100nF	
C4502	ECUV1H104KBW	CERAMIC	50V	100nF	
C4503	ECUV1H104KBW	CERAMIC	50V	100nF	
C4506	ECUV1H104KBW	CERAMIC	50V	100nF	
C4507	ECUV1H104KBW	CERAMIC	50V	100nF	
C4508	ECEA1CKA100	ELECT	16V	10μF	
C4515	ECUV1H104KBW	CERAMIC	50V	100nF	
C4557	ECUV1H473ZFX	CERAMIC	50V	47nF	

Ref No.	Part No.	Description		
C4576	ECUV1H103KBM	CERAMIC	50V	10nF
C4577	ECUV1H103KBM	CERAMIC	50V	10nF
C4580	ECUV1H103KBM	CERAMIC	50V	10nF
C4589	ECUV1H103KBG	CERAMIC	50V	10nF
C4701	ECUV1H030CCN	S.M. CAP	50V	30pF
C4703	ECUV1H104KBW	CERAMIC	50V	100nF
C4705	ECEA1HKA2R2	ELECT	50V	22UF
C4706	ECUV1H104KBW	CERAMIC	50V	100nF
C4708	ECUV1H473ZFX	CERAMIC	50V	47nF
C4711	ECUV1H470JCG	CERAMIC	50V	47pF
C4712	ECUV1H470JCG	CERAMIC	50V	47pF
C4713	ECUV1H120JCM	S.M. CAP	50V	12pF
C4714	ECEA1HKA4R7	ELECT	50V	4.7μF
C4721	ECUV1H104KBW	CERAMIC	50V	100nF
C4724	ECUV1H100DCN	S.M. CAP	50V	10pF
C4741	ECUV1H103KBM	CERAMIC	50V	10nF
C4742	ECUV1H104ZFX	CERAMIC	50V	100nF
C4743	ECEA1CKA470	ELECT	16V	47μF
C4744	ECEA50Z1	ELECT	50V	1μF
C4746	ECUV1H050DCM	CERAMIC	50V	5pF
C4804	ECEA1EKA4R7	ELECT	25V	4.7μF
C4806	ECUV1H471JCX	CERAMIC	50V	470pF
C4808	ECUV1H471JCX	CERAMIC	50V	470pF
C4809	ECUV1H101JCG	CERAMIC	50V	100pF
C4811	ECUV1H101JCG	CERAMIC	50V	100pF
C4831	ECUV1H390JCG	CERAMIC	50V	39pF
C4833	ECUV1H104KBW	CERAMIC	50V	100nF
C4837	ECUV1H473KBW	CERAMIC	50V	47nF
C4841	ECEA1CKA220	ELECT	16V	22μF
C4842	ECEA1HKA2R2	ELECT	50V	22UF
C4843	ECUV1H473ZFX	CERAMIC	50V	47nF
C4844	ECEA1CKA470	ELECT	16V	47μF
C4845	ECUV1H104KBW	CERAMIC	50V	100nF
C4847	ECUV1H100DCN	S.M. CAP	50V	10pF
C4848	ECUV1H020CCN	S.M. CAP	50V	20pF
C4891	ECEA1HKA2R2	ELECT	50V2	.2UF
C4892	ECEA1HKA2R2	ELECT	50V2	.2UF
C4893	ECEA1HKA2R2	ELECT	50V2	.2UF
C4894	ECEA1HKA2R2	ELECT	50V2	.2UF
C6101	ECQU2A224MN	FILM	250V	220nF
C6102	ECQU2A154MN	FILM	250V	150nF
C6103	ECQM2A104KZ	FILM	250V	100nF
C6301	ECEA1HFS470	ELECT	50V	47μF
C6407	ECKC1H102J	CERAMIC	50V	1000pF
C6408	ECCR1H561J	CERAMIC	50V	560pF
C6409	ECCR1H561J	CERAMIC	50V	560pF
C6410	ECKC1H102J	CERAMIC	50V	1000pF
C6411	ECEA50Y4R7	ELECT	50V	4.7μF
C6412	ECEA50Y4R7	ELECT	50V	4.7μF
C6432	ECKC1H102J	CERAMIC	50V	1000pF
C6434	ECKC1H103JB	CERAMIC	50V	10nF
C6437	ECKC1H103JB	CERAMIC	50V	10nF
C7003	ECQB1H393K	FILM	50V	39nF
C7004	ECQB1H103J	FILM	50V	10nF

RESISTORS

R206	ERG2ANJ223	FILM	2W	5%	22KΩ
R207	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R466	ERG2ANJ471	FILM	2W	5%	471Ω
R468	ERG2ANJ471	FILM	2W	5%	471Ω
R471	ERD25TJ471	CARBON	0.25W	5%	470Ω
R472	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R473	ERD25TJ122	CARBON	0.25W	5%	1K2Ω
R474	ERD25TJ683	CARBON	0.25W	5%	68KΩ
R477	ERD25TJ683	CARBON	0.25W	5%	68KΩ
R478	ERD25TJ104	CARBON	0.25W	5%	100KΩ
R479	ERDS1TJ1R0	CARBON	0.5W	5%	1Ω
R481	ERD25TJ471	CARBON	0.25W	5%	470Ω
R482	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R483	ERD25TJ122	CARBON	0.25W	5%	1K2Ω
R484	ERD25TJ683	CARBON	0.25W	5%	68KΩ

Ref No.	Part No.	Description			
R487	ERD25TJ683	CARBON	0.25W	5%	68KΩ
R488	ERD25TJ104	CARBON	0.25W	5%	100KΩ
R489	ERDS1TJ1R0	CARBON	0.5W	5%	1Ω
R491	ERQ14AJ100	METAL	0.25W	5%	10Ω ⚠
R492	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R496	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R498	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R521	ERQ14AJ3R3	METAL	0.25W	5%	3R3Ω ⚠
R526	ERD25TJ560	CARBON	0.25W	5%	56Ω
R527	ERDS1TJ153	CARBON	0.5W	5%	15KΩ
R528	ERDS1TJ153	CARBON	0.5W	5%	15KΩ
R529	ERDS1TJ153	CARBON	0.5W	5%	15KΩ
R530	ERDS1TJ153	CARBON	0.5W	5%	15KΩ
R531	ERF10ZJ100	WOUND	10W	5%	10Ω ⚠
R532	ERW2PKR47	WOUND	1W	5%	.47Ω ⚠
R533	ERDS1TJ220	CARBON	0.5W	5%	22Ω
R536	ERDS2TC0V	WIRE LINK			
R537	ERDS2TC0V	WIRE LINK			
R538	ERDS2TC0V	WIRE LINK			
R539	ERDS2TC0V	WIRE LINK			
R541	ERG1ANJ152	FILM	1W	5%	1K5Ω
R542	ERQ14AJ101	METAL	0.25W	5%	100Ω ⚠
R547	ERQ12HJ4R7	METAL	0.5W	5%	4R7Ω ⚠
R548	ERQ14AJ330	METAL	0.25W	5%	33Ω ⚠
R549	ERO50PKF1203	FILM	0.5W	1%	120KΩ ⚠
R557	ERQ12HKR22	FUSIBLE	0.5W	10%	0.22Ω ⚠
R561	ERQ12HJ1R5	FUSIBLE	0.5W	5%	1.5Ω ⚠
R563	ERD25TJ104	CARBON	0.25W	5%	100KΩ
R564	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R566	ERO25CKF4701	FILM	0.25W	1%	4K7Ω ⚠
R567	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R568	ERD25TJ1R5	CARBON	0.25W	5%	1R5Ω
R569	ERDS1TJ221	CARBON	0.5W	5%	220Ω
R570	ERG2SJ221	FILM	2W	5%	220Ω
R571	ERDS1TJ680	CARBON	0.5W	5%	68Ω
R572	ERO25CKF1801	FILM	0.25W	1%	1K8Ω ⚠
R573	ERO25CKF1801	FILM	0.25W	1%	1K8Ω ⚠
R574	ERW12PTKR56C	WOUND	0.5W	10%	0.56Ω ⚠
R575	ERDS1TJ561	CARBON	0.5W	5%	560Ω
R576	ERO25CKF2202	FILM	0.25W	1%	22KΩ ⚠
R577	ERO25CKF2202	FILM	0.25W	1%	22KΩ ⚠
R578	ERO25CKF68R0	FILM	0.25W	1%	68Ω ⚠
R579	ERO25CKF1002	METAL	0.25W	1%	10KΩ ⚠
R583	ERO25CKF1000	FILM	0.25W	1%	100Ω ⚠
R584	ERO25CKF2201	FILM	0.25W	1%	2K2Ω ⚠
R585	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R586	ERO25CKF1002	METAL	0.25W	1%	10KΩ ⚠
R587	ERO25CKF3901	METAL	0.25W	1%	3K9Ω ⚠
R588	ERO25CKF8201	METAL	0.25W	1%	8K2Ω ⚠
R589	ERO25CKF2202	FILM	0.25W	1%	22KΩ ⚠
R591	ERO25CKF3301	FILM	0.25W	1%	3K3Ω ⚠
R592	ERO25CKF1501	FILM	0.25W	1%	1K5Ω ⚠
R593	ERO25CKF5601	FILM	0.25W	1%	5K6Ω ⚠
R594	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R597	ERD25TJ105	CARBON	0.25W	5%	1MΩ
R599	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R612	ERC12ZGK335D	SOLID	0.5W	10%	3M3Ω
R613	ERF7ZK1R0	WOUND	7W	10%	1Ω ⚠
R621	ERG2ANJ472	FILM	2W	5%	4K7Ω
R623	ERX12SJR47	FILM	12W	5%	.47Ω
R624	ERDS1TJ220	CARBON	0.5W	5%	22Ω
R625	ERG3ANJ682	FILM	3W	5%	6K8Ω
R626	ERD50TJ564	CARBON	0.5W	5%	560KΩ
R627	ERD50TJ564	CARBON	0.5W	5%	560KΩ
R628	ERD50TJ474	CARBON	0.5W	5%	470KΩ
R629	ERD25TJ682	CARBON	0.25W	5%	6K8Ω
R631	ERD25TJ221	CARBON	0.25W	5%	220Ω
R632	ERO25CKF1201	FILM	0,25W	1%	1K2Ω ⚠
R633	ERO25CKF1272	FILM	0.25W	1%	12.7KΩ ⚠

Ref No.	Part No.	Description			
R636	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R637	ERG2ANJ470	METAL	2W	5%	47Ω
R639	ERD75TAJ825	CARBON	0.75W	5%	8M2Ω ⚠
R651	ERDS1TJ104	CARBON	0.5W	5%	100KΩ
R667	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R668	ERO25CKF1802	FILM	0.25W	1%	18KΩ ⚠
R669	ERO25CKF4701	FILM	0.25W	1%	4K7Ω ⚠
R674	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R676	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R677	ERO25CKF1002	METAL	0.25W	1%	10KΩ ⚠
R678	ERO25CKF1002	METAL	0.25W	1%	10KΩ ⚠
R679	ERDS1TJ474	CARBON	0.5W	5%	470KΩ
R681	ERDS1TJ3R3	CARBON	0.5W	5%	3R3Ω
R682	ERD25TJ330	CARBON	0.25W	5%	33Ω
R683	ERD25TJ471	CARBON	0.25W	5%	470Ω
R684	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R685	ERG2ANJ101	FILM	2W	5%	100Ω
R686	NKS2	FUSABLE	0.25W	5%	0.1Ω
R687	NKS2	FUSABLE	0.25W	5%	0.1Ω
R688	ERG2ANJ101	FILM	2W	5%	100Ω
R691	ERQ14AJ330	METAL	0.25W	5%	33Ω ⚠
R696	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R697	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R698	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1003	ERQ14AJ100	METAL	0.25W	5%	10Ω ⚠
R1006	ERQ14AJ100	METAL	0.25W	5%	10Ω ⚠
R1011	ERJ8GCYJ151	FILM	0.125W	5%	150Ω
R1012	ERQ14AJ4R7	METAL	0.25W	5%	4R7Ω ⚠
R1016	ERJ6GCYJ101	FILM	0.125W	5%	100Ω
R1017	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1021	ERQ14AJ101	METAL	0.25W	5%	100Ω ⚠
R1026	ERQ14AJ101	METAL	0.25W	5%	100Ω ⚠
R1030	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1031	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1032	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1033	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1034	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1035	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1036	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R1037	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1038	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R1039	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1040	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1041	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1042	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1043	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1044	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1045	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1046	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R1047	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1048	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R1049	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1050	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1051	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1052	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1053	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1054	ERJ6GEYJ394	S.M.CARB	0.1W	5%	390KΩ
R1055	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1061	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1062	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1063	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1064	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1071	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1072	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1073	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1074	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1078	ERJ8GCYJ474	FILM	0.125W	5%	470KΩ
R1082	ERJ8GCY0R00	WIRE LINK			
R1087	ERJ8GCY0R00	WIRE LINK			
R1106	ERJ8GCYJ101	FILM	0.125W	5%	100Ω

Ref No.	Part No.	Description			
R1108	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1109	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1111	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1112	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1113	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1114	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1121	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1122	ERJ8GCY0R00	WIRE LINK			
R1124	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1126	ERJ8GCYJ680	FILM	0.125W	5%	68Ω
R1127	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1128	ERJ8GCYJ333	FILM	0.125W	5%	33KΩ
R1131	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1132	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1138	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1139	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1141	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1142	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1143	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1144	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1146	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1147	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1148	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1149	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1151	ERJ8GCYJ560	FILM	0.125W	5%	56Ω
R1152	ERJ8GCYJ121	FILM	0.125W	5%	120Ω
R1153	ERJ8GCYJ151	FILM	0.125W	5%	150Ω
R1154	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1156	ERJ8GCYJ681	FILM	0.125W	5%	680Ω
R1157	ERJ8GCYJ683	FILM	0.125W	5%	68KΩ
R1158	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1159	ERJ8GCYJ152	FILM	0.125W	5%	1K5Ω
R1161	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1162	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1163	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1164	ERJ8GCYJ152	FILM	0.125W	5%	1K5Ω
R1171	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1172	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1173	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1174	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1176	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1177	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1178	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1179	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1201	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1202	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1203	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1204	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1206	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1207	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1208	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1209	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1211	ERJ8GCY0R00	WIRE LINK			
R1212	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1213	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1216	ERJ8GCY0R00	WIRE LINK			
R1217	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1218	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1221	ERJ8GCY0R00	WIRE LINK			
R1222	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1223	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1227	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1228	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1229	ERJ8GCYJ183	FILM	0.125W	5%	18KΩ
R1239	ERJ8GCYJ152	FILM	0.125W	5%	1K5Ω
R1241	ERJ8GCYJ750	FILM	0.125W	5%	75Ω
R1243	ERJ8GCYJ680	FILM	0.125W	5%	68Ω
R1244	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1245	ERJ8GCYJ391	FILM	0.125W	5%	390Ω
R1246	ERJ8GCYJ271	FILM	0.125W	5%	270Ω
R1247	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ

Ref No.	Part No.	Description			
R1248	ERJ8GCYJ332	FILM	0.125W	5%	3K3Ω
R1249	ERJ8GCYJ680	FILM	0.125W	5%	68Ω
R1250	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1251	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1252	ERJ8GCYJ122	FILM	0.125W	5%	1K2Ω
R1253	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1254	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1256	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1305	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1310	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1312	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1314	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1315	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1317	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1318	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1323	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1324	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1343	ERJ8GCYJ683	FILM	0.125W	5%	68KΩ
R1349	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1350	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R1351	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1353	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R1354	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1356	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1357	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1371	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R1372	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1373	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R1374	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R1375	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R1376	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1377	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1378	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1379	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1382	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1383	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R1384	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R1385	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R1386	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1387	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1388	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1389	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1391	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1394	ERJ8GCY0R00	WIRE LINK			
R1398	ERJ8GCY0R00	WIRE LINK			
R1408	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1412	ERJ8GCY0R00	WIRE LINK			
R1414	ERJ8GCYJ151	FILM	0.125W	5%	150Ω
R1416	ERJ8GCY0R00	WIRE LINK			
R1417	ERJ8GCYJ680	FILM	0.125W	5%	68Ω
R1422	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1435	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1436	ERJ8GCYJ683	FILM	0.125W	5%	68KΩ
R1439	ERJ8GCYJ680	FILM	0.125W	5%	68Ω
R1441	ERJ8GCYJ221	FILM	0.125W	5%	220Ω
R1442	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1443	ERJ8GCY0R00	WIRE LINK			
R1444	ERJ8GCYJ823	FILM	0.125W	5%	8K2Ω
R1446	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R1447	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1448	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1449	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1451	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1452	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1453	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1461	ERJ8GCYJ221	FILM	0.125W	5%	220Ω
R1462	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1463	ERJ8GCY0R00	WIRE LINK			
R1464	ERJ8GCYJ823	FILM	0.125W	5%	8K2Ω
R1466	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R1467	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ

Ref No.	Part No.	Description		
R1468	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1469	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1471	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1472	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1473	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1504	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1506	ERJ8GCYJ333	FILM	0.125W	5% 33KΩ
R1507	ERJ8GCYJ123	FILM	0.125W	5% 12KΩ
R1508	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1516	ERJ8GCYJ100	FILM	0.125W	5% 10Ω
R1517	ERJ8GCYJ152	FILM	0.125W	5% 1K5Ω
R1518	ERJ8GCYJ123	FILM	0.125W	5% 12KΩ
R1519	ERJ8GCYJ123	FILM	0.125W	5% 12KΩ
R1521	ERJ8GCYJ123	FILM	0.125W	5% 12KΩ
R1523	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1524	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1526	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1527	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1531	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1532	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1533	ERJ8GCYJ222	FILM	0.125W	5% 2K2Ω
R1534	ERJ8GCYJ222	FILM	0.125W	5% 2K2Ω
R1535	ERJ8GCYJ820	FILM	0.125W	5% 82Ω
R1537	ERJ8GCYJ151	FILM	0.125W	5% 150Ω
R1538	ERJ8GCYJ560	FILM	0.125W	5% 56Ω
R1541	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1542	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1544	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1603	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1604	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1605	ERJ8GCY0R00	WIRE LINK		
R1609	ERJ8GCY0R00	WIRE LINK		
R1611	ERJ8GCYJ471	FILM	0.125W	5% 470Ω
R1613	ERJ8GCYJ681	FILM	0.125W	5% 680Ω
R1617	ERJ8GCYJ560	FILM	0.125W	5% 56Ω
R1623	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1624	ERJ8GCYJ100	FILM	0.125W	5% 10Ω
R1626	ERJ8GCYJ151	FILM	0.125W	5% 150Ω
R1627	ERJ8GCYJ100	FILM	0.125W	5% 10Ω
R1628	ERJ8GCYJ151	FILM	0.125W	5% 150Ω
R1629	ERJ8GCYJ820	FILM	0.125W	5% 82Ω
R1630	ERJ8GCYJ680	FILM	0.125W	5% 68Ω
R1632	ERJ8GCYJ151	FILM	0.125W	5% 150Ω
R1633	ERJ8GCYJ821	FILM	0.125W	5% 820Ω
R1634	ERJ8GCYJ104	FILM	0.125W	5% 100KΩ
R1635	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1636	ERJ8GCYJ332	FILM	0.125W	5% 3K3Ω
R1637	ERJ8GCYJ471	FILM	0.125W	5% 470Ω
R1638	ERJ8GCYJ471	FILM	0.125W	5% 470Ω
R1641	ERJ8GCYJ333	FILM	0.125W	5% 33KΩ
R1642	ERJ8GCYJ104	FILM	0.125W	5% 100KΩ
R1643	ERJ8GCYJ470	FILM	0.125W	5% 47Ω
R1646	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1648	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1657	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1662	ERJ8GCYJ220	FILM	0.125W	5% 22Ω
R1663	ERJ8GCYJ220	FILM	0.125W	5% 22Ω
R1664	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1665	ERJ8GCYJ220	FILM	0.125W	5% 22Ω
R1675	ERJ8GCY0R00	WIRE LINK		
R1678	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1683	ERJ8GCYJ331	FILM	0.125W	5% 330Ω
R1684	ERJ8GCYJ680	FILM	0.125W	5% 68Ω
R1685	ERJ8GCY0R00	WIRE LINK		
R1686	ERJ8GCYJ680	FILM	0.125W	5% 68Ω
R1687	ERJ8GCYJ221	FILM	0.125W	5% 220Ω
R1701	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1702	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1706	ERJ8GCYJ104	FILM	0.125W	5% 100KΩ
R1707	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1708	ERJ8GCYJ104	FILM	0.125W	5% 100KΩ

Ref No.	Part No.	Description		
R1709	ERJ8GCYJ473	FILM	0.125W	5% 47KΩ
R1722	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1723	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1724	ERJ8GCYJ153	FILM	0.125W	5% 15KΩ
R1728	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1729	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1731	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1764	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1772	ERJ8GCYJ750	FILM	0.125W	5% 75Ω
R1774	ERJ8GCYJ750	FILM	0.125W	5% 75Ω
R1777	ERJ8GCYJ750	FILM	0.125W	5% 75Ω
R1779	ERJ8GCYJ750	FILM	0.125W	5% 75Ω
R1780	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1781	ERJ8GCY0R00	WIRE LINK		
R1783	ERJ8GCYJ471	FILM	0.125W	5% 470Ω
R1784	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1791	ERJ8GCYJ272	FILM	0.125W	5% 2K7Ω
R1792	ERJ8GCYJ272	FILM	0.125W	5% 2K7Ω
R1793	ERJ8GCYJ272	FILM	0.125W	5% 2K7Ω
R1806	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1807	ERJ8GCYJ222	FILM	0.125W	5% 2K2Ω
R1808	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1809	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1811	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1812	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1815	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1816	ERJ8GCYJ473	FILM	0.125W	5% 47KΩ
R1821	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1822	ERJ8GCYJ392	FILM	0.125W	5% 3K9Ω
R1823	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1824	ERJ8GCYJ473	FILM	0.125W	5% 47KΩ
R1825	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1826	ERJ8GCYJ563	FILM	0.125W	5% 56KΩ
R1827	ERJ8GCYJ393	FILM	0.125W	5% 39KΩ
R1828	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1829	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1831	ERJ8GCYJ392	FILM	0.125W	5% 3K9Ω
R1832	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1834	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1835	ERJ8GCYJ103	FILM	0.125W	5% 10KΩ
R1837	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1838	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1839	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1841	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1842	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1843	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1844	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1846	ERJ8GCYJ101	FILM	0.125W	5% 100Ω
R1847	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1849	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1850	ERJ8GCYJ471	FILM	0.125W	5% 470Ω
R1857	ERJ8GCYJ683	FILM	0.125W	5% 68KΩ
R1858	ERJ8GCYJ393	FILM	0.125W	5% 39KΩ
R1859	ERJ8GCYJ102	FILM	0.125W	5% 1KΩ
R1860	ERJ8GCYJ221	FILM	0.125W	5% 220Ω
R1861	ERJ8GCYJ272	FILM	0.125W	5% 2K7Ω
R1862	ERJ8GCYJ272	FILM	0.125W	5% 2K7Ω
R1863	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1866	ERJ8GCYJ272	FILM	0.125W	5% 2K7Ω
R1881	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1882	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1884	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1885	ERJ8GCYJ100	FILM	0.125W	5% 10Ω
R1886	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1887	ERJ8GCYJ100	FILM	0.125W	5% 10Ω
R1888	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1889	ERJ8GCYJ100	FILM	0.125W	5% 10Ω
R1891	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1892	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1893	ERJ8GCYJ472	FILM	0.125W	5% 4K7Ω
R1894	ERJ8GCYJ562	FILM	0.125W	5% 5K6Ω

Ref No.	Part No.	Description			
R1896	ERJ8GCYJ332	FILM	0.125W	5%	3K3Ω
R1897	ERJ8GCYJ562	FILM	0.125W	5%	5K6Ω
R1898	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1899	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R1906	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1921	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R1922	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R1923	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R1925	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R1941	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R1961	ERJ8GCYJ332	FILM	0.125W	5%	3K3Ω
R1962	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1963	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R1964	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R1966	ERJ8GCYJ152	FILM	0.125W	5%	1K5Ω
R1967	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R1968	ERJ8GCYJ470	FILM	0.125W	5%	47Ω
R1969	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3101	ERJ8GCYJ562	FILM	0.125W	5%	5K6Ω
R3102	ERJ8GCYJ562	FILM	0.125W	5%	5K6Ω
R3103	ERJ8GCYJ562	FILM	0.125W	5%	5K6Ω
R3104	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3106	ERJ8GCYJ563	FILM	0.125W	5%	56KΩ
R3107	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R3108	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3109	ERJ8GCYJ101	FILM	0.125W	5%	100Ω
R3111	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R3112	ERJ8GCYJ152	FILM	0.125W	5%	1K5Ω
R3113	ERJ8GCYJ681	FILM	0.125W	5%	680Ω
R3121	ERJ8GCYJ153	FILM	0.125W	5%	15KΩ
R3122	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R3123	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3124	ERJ8GCYJ681	FILM	0.125W	5%	680Ω
R3126	ERJ8GCYJ122	FILM	0.125W	5%	1K2Ω
R3127	ERQ14AJ100	METAL	0.25W	5%	10Ω ⚠
R3130	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R3131	ERD25TJ563	CARBON	0.25W	5%	56KΩ
R3132	ERD25TJ122	CARBON	0.25W	5%	1K2Ω
R3133	ERD25TJ2R7	CARBON	0.25W	5%	2R7Ω
R3134	ERDS1FYJ390	CARBON	0.5W	5%	39Ω ⚠
R3135	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R3136	ERD25TJ563	CARBON	0.25W	5%	56KΩ
R3137	ERD25TJ122	CARBON	0.25W	5%	1K2Ω
R3138	ERD25TJ2R7	CARBON	0.25W	5%	2R7Ω
R3139	ERDS1FYJ390	CARBON	0.5W	5%	39Ω ⚠
R3141	ERDS1FYJ101	CARBON	0.5W	5%	100Ω ⚠
R3142	ERJ8GCYJ472	FILM	0.125W	5%	4K7Ω
R3143	ERJ8GCYJ222	FILM	0.125W	5%	2K2Ω
R3144	ERJ8GCYJ681	FILM	0.125W	5%	680Ω
R3146	ERDS1FYJ181	CARBON	0.5W	5%	180Ω ⚠
R3151	ERQ14AJ3R9	FUSIBLE	0.25W	5%	3.9Ω ⚠
R3152	ERQ12HJ102	METAL	0.5W	5%	1KΩ ⚠
R3153	ERQ14AJ3R9	FUSIBLE	0.25W	5%	3.9Ω ⚠
R3160	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R3161	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3162	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3163	ERJ8GCYJ332	FILM	0.125W	5%	3K3Ω
R3164	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3166	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3167	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3168	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3169	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3170	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R3171	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3172	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3173	ERJ8GCYJ332	FILM	0.125W	5%	3K3Ω
R3174	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3176	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3177	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3178	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ

Ref No.	Part No.	Description			
R3179	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3180	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R3181	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3182	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3183	ERJ8GCYJ332	FILM	0.125W	5%	3K3Ω
R3184	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3186	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3187	ERJ8GCYJ471	FILM	0.125W	5%	470Ω
R3188	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3189	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R3361	ERQ1CJ5R1	FILM	1W	5%	5.1Ω ⚠
R3366	ERQ12HJ101	FUSIBLE	0.5W	5%	100Ω ⚠
R3375	ERG2ANJ183	FILM	2W	5%	18KΩ
R3385	ERG2ANJ183	FILM	2W	5%	18KΩ
R3395	ERG2ANJ183	FILM	2W	5%	18KΩ
R4501	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R4502	ERJ8GCYJ333	FILM	0.125W	5%	33KΩ
R4503	ERJ8GCYJ331	FILM	0.125W	5%	330Ω
R4504	ERJ8GCYJ333	FILM	0.125W	5%	33KΩ
R4506	ERJ8GCYJ333	FILM	0.125W	5%	33KΩ
R4507	ERJ6GMYJ472	S.M.CARB	0.1W	5%	4K7Ω
R4549	ERJ8GCY0R00	WIRE LINK			
R4552	ERJ8GCYJ100	FILM	0.125W	5%	10Ω
R4553	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R4554	ERJ6GMY0R00	S.M. WIRE	LINK		
R4555	ERJ6GMY0R00	S.M. WIRE	LINK		
R4556	ERJ8GCYJ473	FILM	0.125W	5%	47KΩ
R4557	ERJ6GMYJ473	S.M.CARB	0.1W	5%	47KΩ
R4558	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R4560	ERJ8GCYJ563	FILM	0.125W	5%	56KΩ
R4709	ERJ8GCYJ223	FILM	0.125W	5%	22KΩ
R4711	ERJ8GCYJ224	FILM	0.125W	5%	220KΩ
R4721	ERJ6GMYJ222	S.M.CARB	0.1W	5%	2K2Ω
R4722	ERJ6GMYJ123	S.M.CARB	0.1W	5%	12KΩ
R4723	ERJ6GMYJ221	S.M.CARB	0.1W	5%	220Ω
R4724	ERJ6GMYJ680	S.M.CARB	0.1W	5%	68Ω
R4726	ERJ8GCYJ123	FILM	0.125W	5%	12KΩ
R4727	ERJ8GCYJ181	FILM	0.125W	5%	180Ω
R4733	ERJ6GMYJ103	S.M.CARB	0.1W	5%	10KΩ
R4808	ERJ6GMYJ471	S.M.CARB	0.1W	5%	470Ω
R4809	ERJ6GMYJ471	S.M.CARB	0.1W	5%	470Ω
R4837	ERJ8GCYJ103	FILM	0.125W	5%	10KΩ
R4841	ERJ8GCYJ561	FILM	0.125W	5%	560Ω
R4842	ERJ6GMYJ561	S.M.CARB	0.1W	5%	560Ω
R4843	ERJ6GMYJ821	S.M.CARB	0.1W	5%	820Ω
R4848	ERJ8GCY0R00	WIRE LINK			
R4879	ERJ8GCY0R00	WIRE LINK			
R4891	ERJ8GCYJ102	FILM	0.125W	5%	1KΩ
R4892	ERJ6GMYJ123	S.M.CARB	0.1W	5%	12KΩ
R4893	ERJ6GMYJ471	S.M.CARB	0.1W	5%	470Ω
R4894	ERJ6GMYJ471	S.M.CARB	0.1W	5%	470Ω
R4895	ERJ6GMYJ474	S.M.CARB	0.1W	5%	470KΩ
R4896	ERJ8GCYJ474	FILM	0.125W	5%	470KΩ
R6101	ERC12ZGK824	CARBON	0.5W	10%	820KΩ
R6102	232266296209	THERMISTOR			
R6301	ERJ6GMYJ101	S.M.CARB	0.1W	5%	100Ω
R6302	ERJ6GMYJ102	S.M.CARB	0.1W	5%	1KΩ
R6303	ERJ6GMYJ103	S.M.CARB	0.1W	5%	10KΩ
R6304	ERJ6GMY0R00	S.M. WIRE	LINK		
R6305	ERJ6GMY0R00	S.M. WIRE	LINK		
R6306	ERJ6GMY0R00	S.M. WIRE	LINK		
R6307	ERJ6GMY0R00	S.M. WIRE	LINK		
R6308	ERJ6GMY0R00	S.M. WIRE	LINK		
R6309	ERJ6GMY0R00	S.M. WIRE	LINK		
R6310	ERJ6GMY0R00	S.M. WIRE	LINK		
R6311	ERJ6GMY0R00	S.M. WIRE	LINK		
R6312	ERJ6GMY0R00	S.M. WIRE	LINK		
R6313	ERJ6GMY0R00	S.M. WIRE	LINK		
R6314	ERJ6GMY0R00	S.M. WIRE	LINK		
R6315	ERJ6GMY0R00	S.M. WIRE	LINK		

Ref No.	Part No.	Description		
R6316	ERJ6GMY0R00	S.M. WIRE LINK		
R6317	ERJ6GMY0R00	S.M. WIRE LINK		
R6318	ERJ6GMY0R00	S.M. WIRE LINK		
R6407	ERG2SJ471	FILM	2W	5% 470Ω
R6408	ERG2SJ471	FILM	2W	5% 470Ω
R6409	ERDS1TJ151	CARBON	0.5W	5% 150Ω
R6410	ERDS1TJ151	CARBON	0.5W	5% 150Ω
R7004	ERDS1TJ2R2	CARBON	0.5W	5% 2R2Ω
R7005	ERD25TJ2R2	CARBON	0.25W	5% 2R2Ω
R7006	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R7007	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R7008	ERD25TJ470	CARBON	0.25W	5% 47Ω

DIODES

D206	MA4300	DIODE
D477	RGP10AF	DIODE
D478	RGP10AF	DIODE
D487	RGP10AF	DIODE
D488	RGP10AF	DIODE
D491	MA167TA5	DIODE
D526	MA165TA5	DIODE
D527	EU02	DIODE
D536	ERB0615	DIODE
D537	TVSRU2AM	DIODE
D544	TVSES1FV1	DIODE
D547	TVSAU02V0	DIODE
D557	TVSRU2AM	DIODE
D561	ERA15-02V3	DIODE
D562	MA165TA5	DIODE
D563	MA165TA5	DIODE
D567	MA4062	DIODE
D613	RBV4-08	DIODE
D622	EU02	DIODE
D624	ERA15-02V3	DIODE
D636	EU02	DIODE
D651	BYW96D	DIODE
D656	EU02	DIODE
D661	RU3NLFC4	DIODE
D663	MA4120	DIODE
D665	MA165TA5	DIODE
D671	MA750LT	DIODE
D681	EU02	DIODE
D686	RU30LF302	DIODE
D687	RU30LF302	DIODE
D694	TVSQB106TV1	DIODE
D1001	MA110TX	DIODE
D1002	MA110TX	DIODE
D1012	MA8110MTX	DIODE
D1033	MA8120TX	DIODE
D1037	MA8120TX	DIODE
D1043	MA8120TX	DIODE
D1047	MA8120TX	DIODE
D1061	MA8120TX	DIODE
D1062	MA8120TX	DIODE
D1071	MA110TX	DIODE
D1072	MA110TX	DIODE
D1073	MA110TX	DIODE
D1114	MA8120TX	DIODE
D1122	MA8120TX	DIODE
D1138	MA8056TX	DIODE
D1139	MA8056TX	DIODE
D1144	MA8120TX	DIODE
D1149	MA8120TX	DIODE
D1152	MA8120TX	DIODE
D1171	MA110TX	DIODE
D1172	MA110TX	DIODE
D1174	MA8120TX	DIODE
D1179	MA8120TX	DIODE
D1196	MA110TX	DIODE
D1197	MA110TX	DIODE
D1204	MA8120TX	DIODE

Ref No.	Part No.	Description
D1209	MA8120TX	DIODE
D1239	MA8056TX	DIODE
D1241	MA110TX	DIODE
D1350	MA8091TX	DIODE
D1351	MA110TX	DIODE
D1352	MA110TX	DIODE
D1432	MA110TX	DIODE
D1433	MA110TX	DIODE
D1476	MA110TX	DIODE
D1477	MA110TX	DIODE
D1506	MA110TX	DIODE
D1507	MA110TX	DIODE
D1533	MA110TX	DIODE
D1534	MA8056TX	DIODE
D1617	MA110TX	DIODE
D1624	MA8051MTX	DIODE
D1636	MA110TX	DIODE
D1657	MA8056TX	DIODE
D1678	MA8200TX	DIODE
D1679	MA110TX	DIODE
D1683	MA110TX	DIODE
D1702	MA110TX	DIODE
D1706	MA110TX	DIODE
D1707	MA110TX	DIODE
D1709	MA110TX	DIODE
D1724	MA110TX	DIODE
D1726	MA110TX	DIODE
D1772	MA8056TX	DIODE
D1774	MA8056TX	DIODE
D1777	MA8056TX	DIODE
D1779	MA8056TX	DIODE
D1793	MA110TX	DIODE
D1794	MA110TX	DIODE
D1941	MA8056TX	DIODE
D1961	MA110TX	DIODE
D1962	MA8091TX	DIODE
D1963	MA110TX	DIODE
D1966	MA110TX	DIODE
D3126	MA110TX	DIODE
D3127	MA110TX	DIODE
D3133	MA110TX	DIODE
D3138	MA110TX	DIODE
D4501	BA582	DIODE
D4502	BA582	DIODE
D4507	BA582	DIODE
D4711	BB515E7908	DIODE
D4713	BB515E7908	DIODE
D4831	BB619E7908	DIODE
D4832	BB619E7908	DIODE
D4837	BA582	DIODE
D6201	EU02	DIODE
D6202	EU02	DIODE
D6301	LN81RPHL	DIODE
D6431	EU02	DIODE
D6432	EU02	DIODE
D6433	EU02	DIODE
D6434	EU02	DIODE
D6436	EU02	DIODE
D6437	EU02	DIODE
D7004	MA723TA5	DIODE
D7005	MA723TA5	DIODE
D7006	MA165TA5	DIODE

INTEGRATED CIRCUITS

I474	TDA2030AV	I.C. AUDIO OUTPUT
I484	TDA2030AV	I.C. AUDIO OUTPUT
I561	TDA8175	I.C. VERTICAL OUTPUT
I611	TDA4601	I.C. POWER SUPPLY
I666	TL431ACLPM	I.C. REGULATOR
I676	TL431ACLPM	I.C. REGULATOR
I691	AN78L05TA	I.C. 5V REGULATOR

Ref No.	Part No.	Description
I1021	TEA6420/L	I.C. AUDIO SWITCH
I1026	TEA6420/L	I.C. AUDIO SWITCH
I1101	TEA6415B	I.C. VIDEO/LUMA SWITCH
I1106	TEA6415B	I.C. CHROMA SWITCH
I1301	ACP2371-43	I.C. AUDIO CONTROL PROCESSOR
I1401	MSP2410-08	I.C. MULTI SOUND PROCESSOR
I1431	AMU2481-26	AUDIO MULTIPLEXER UNIT
I1501	DPU2553-25	DEFLECTION PROCESSING UNI
I1601	SAD2140-12	ANALOGUE TO DIGITAL CONVE
I1631	ACVP2205-26	ADAPTIVE COMB FILTER/VIDEO PROCESSOR
I1651	MCU2600-58	I.C. MAIN CLOCK UNIT
I1661	DTI2223-14	DIGITAL TRANSIENT IMPROVE
I1671	VDU2146	VIDEO DISPLAY UNIT
I1761	MN8333	DISPLAY FEATURE UNIT
I1771	TPU2735-45	TELETEXT PROCESSING UNIT
I1786	MN41256AJ08T	I.C. DYNAMIC RAM
I1801	CCU3000-15	I.C. CENTRAL CONTROL UNIT
I1871	27C010-150DC	I.C. EPROM
I1941	X24C16P-A3E	I.C. EEPROM
I4502	TSA5514AT/C2	I.C. IF CONTROL
I4700	TDA3853T	I.C. IF VIDEO
I4800	TDA3857	I.C. IF AUDIO

COILS

L201	ELER6R8KA	COIL
L202	ELER6R8KA	COIL
L203	ELER100KA	COIL
L204	ELER220KA	COIL
L521	ELER220KA	COIL
L538	297-020466	
L541	ELH5L7002	COIL
L542	ELC08D055	COIL
L581	ELER220KA	COIL
L594	297-017696	COIL
L618	2982-021762	COIL
L623	298-19711	COIL
L624	ELER2R2KA	CAPACITOR
L626	298-82858001	COIL
L636	ELER4R7KA	COIL
L651	298-79726002	COIL
L686	EXCELSA35T	COIL
L687	EXCELSA35T	COIL
L1001	ELEV4R7KA	COIL
L1301	ELEV4R7KA	COIL
L1304	ELEV4R7KA	COIL
L1308	ELEV4R7KA	COIL
L1321	297-012549	COIL
L1401	EXCELDR35V	COIL
L1402	ELEV4R7KA	COIL
L1417	ELEMV1R5MA	COIL
L1431	ELEV4R7KA	COIL
L1432	EXCELDR35V	COIL
L1439	ELEMV1R5MA	COIL
L1502	ELEV4R7KA	COIL
L1601	ELEV4R7KA	COIL
L1603	EXCELDR35V	COIL
L1604	EXCEMT101BT	COIL
L1607	ELEMV1R5MA	COIL
L1609	ELEMV1R5MA	COIL
L1622	ELEV4R7KA	COIL
L1631	EXCELDR35V	COIL
L1651	EXCELDR35V	COIL
L1661	EXCELDR35V	COIL
L1662	EXCELDR35V	COIL
L1671	ELEV4R7KA	COIL
L1673	ELEV4R7KA	COIL
L1676	ELEV4R7KA	COIL
L1687	ELEV4R7KA	COIL
L1726	ELEV4R7KA	COIL
L1744	EXCEMT101BT	COIL

Ref No.	Part No.	Description
L1747	EXCEMT101BT	COIL
L1749	EXCEMT101BT	COIL
L1751	EXCELDR35V	COIL
L1761	EXCELDR35V	COIL
L1771	EXCELDR35V	COIL
L1772	EXCEMT220BT	COIL
L1774	EXCEMT220BT	COIL
L1777	EXCEMT220BT	COIL
L1779	EXCEMT220BT	COIL
L1786	EXCELDR35V	COIL
L1801	ELEV4R7KA	COIL
L1871	EXCELDR35V	COIL
L1888	ELEV4R7KA	COIL
L1931	ELEV4R7KA	COIL
L1941	EXCELDR35V	COIL
L1972	EXCELDR35V	COIL
L1974	EXCELDR35V	COIL
L1976	EXCELDR35V	COIL
L3161	SDL-4101	COIL
L3171	SDL-4101	COIL
L3181	SDL-4101	COIL
L4551	ELESN181KA	COIL
L4701	ELESN1R0KA	COIL
L4712	EIV7EN168B	COIL
L4731	ELESN100KA	COIL
L4808	EIS7EN045B	COIL
L4812	EIS7EN045B	COIL
L4831	EIV7EN168B	COIL
L6403	ELEBT6R8KA	COIL
L6404	ELEBT6R8KA	COIL
L6413	ELC15E011	INDUCTOR COIL
L6414	ELC15E011	INDUCTOR COIL
L7001	ELEIN331KA	COIL
L7002	ELH11Y751	COIL

TRANSISTORS

Q496	2SC3311ATA	TRANSISTOR
Q498	2SC3311ATA	TRANSISTOR
Q526	2SC3944RLB	TRANSISTOR
Q534	S2000AFLBLOE	TRANSISTOR
Q583	2SC3311ATA	TRANSISTOR
Q585	2SA1309ATA	TRANSISTOR
Q587	2SA1309ATA	TRANSISTOR
Q593	2SC1318-S	TRANSISTOR
Q594	2SD1265A	TRANSISTOR
Q624	S2000AFLBLOE	TRANSISTOR
Q663	BUZ71AF1	TRANSISTOR
Q674	BUZ71AF1	TRANSISTOR
Q681	2SA1309ATA	TRANSISTOR
Q682	BC638	TRANSISTOR
Q697	2SA1309ATA	TRANSISTOR
Q1011	2SC3940TA-R	TRANSISTOR
Q1033	2SD601ATX	TRANSISTOR
Q1037	2SD601ATX	TRANSISTOR
Q1043	2SD601ATX	TRANSISTOR
Q1047	2SD601ATX	TRANSISTOR
Q1124	2SD601ATX	TRANSISTOR
Q1138	2SD601ATX	TRANSISTOR
Q1139	2SD601ATX	TRANSISTOR
Q1151	BC807-25	TRANSISTOR
Q1154	2SD601ATX	TRANSISTOR
Q1244	BC817-25	TRANSISTOR
Q1248	2SB709ATX	TRANSISTOR
Q1252	2SD601ATX	TRANSISTOR
Q1351	2SB709ATX	TRANSISTOR
Q1379	BC850B	TRANISITOR
Q1389	BC850B	TRANISITOR
Q1443	2SB709ATX	TRANSISTOR
Q1451	2SD601ATX	TRANSISTOR
Q1463	2SB709ATX	TRANSISTOR
Q1471	2SD601ATX	TRANSISTOR

Ref No.	Part No.	Description
Q1524	2SD601ATX	TRANSISTOR
Q1531	2SD601ATX	TRANSISTOR
Q1533	2SD601ATX	TRANSISTOR
Q1536	2SD601ATX	TRANSISTOR
Q1541	2SD601ATX	TRANSISTOR
Q1624	2SD601ATX	TRANSISTOR
Q1627	2SD601ATX	TRANSISTOR
Q1642	2SD601ATX	TRANSISTOR
Q1702	2SD601ATX	TRANSISTOR
Q1706	2SD601ATX	TRANSISTOR
Q1723	2SD601ATX	TRANSISTOR
Q1728	2SB709ATX	TRANSISTOR
Q1779	2SD601ATX	TRANSISTOR
Q1816	2SD601ATX	TRANSISTOR
Q1822	2SD601ATX	TRANSISTOR
Q1824	2SD601ATX	TRANSISTOR
Q1827	2SB709ATX	TRANSISTOR
Q1831	2SD601ATX	TRANSISTOR
Q1839	2SD601ATX	TRANSISTOR
Q1857	2SD601ATX	TRANSISTOR
Q1894	2SB709ATX	TRANSISTOR
Q1898	2SD601ATX	TRANSISTOR
Q1963	2SD601ATX	TRANSISTOR
Q1967	2SD601ATX	TRANSISTOR
Q3108	2SD601ATX	TRANSISTOR
Q3109	2SD601ATX	TRANSISTOR
Q3111	2SB709ATX	TRANSISTOR
Q3122	2SD601ATX	TRANSISTOR
Q3126	2SD601ATX	TRANSISTOR
Q3127	2SB709ATX	TRANSISTOR
Q3131	2SB940APLB	TRANSISTOR
Q3136	2SD1264APLB	TRANSISTOR
Q3143	2SD601ATX	TRANSISTOR
Q3162	2SB709ATX	TRANSISTOR
Q3164	2SD601ATX	TRANSISTOR
Q3166	2SB709ATX	TRANSISTOR
Q3169	2SB709ATX	TRANSISTOR
Q3172	2SB709ATX	TRANSISTOR
Q3174	2SD601ATX	TRANSISTOR
Q3176	2SB709ATX	TRANSISTOR
Q3179	2SB709ATX	TRANSISTOR
Q3182	2SB709ATX	TRANSISTOR
Q3184	2SD601ATX	TRANSISTOR
Q3186	2SB709ATX	TRANSISTOR

Ref No.	Part No.	Description
Q3189	2SB709ATX	TRANSISTOR
Q4721	BC847B	TRANSISTOR
Q4722	BC847B	TRANSISTOR
Q4891	BC847B	TRANSISTOR
Q4892	BC857B	TRANSISTOR
Q4893	BC847B	TRANSISTOR
Q4894	BC847B	TRANSISTOR
Q7001	2SD965-R	TRANSISTOR
Q7002	2SD965-R	TRANSISTOR

SWITCHES

S570	EVQR4AL13	SWITCH	
S6101	ESB99902V	POWER SWITCH	⚠
S6301	EVQPFC04R	SWITCH	
S6302	EVQPFC04R	SWITCH	
S6303	EVQPFC04R	SWITCH	
S6304	EVQPFC04R	SWITCH	
S6305	EVQPFC04R	SWITCH	
S6306	EVQPFC04R	SWITCH	
S6307	EVQPFC04R	SWITCH	
S6308	EVQPFC04R	SWITCH	
S6309	EVQPFC04R	SWITCH	
SCH1	2248202		

TRANSFORMERS

T528	5270103200	TRANSFORMER	
T531	TLF15571F	FLYBACK TRANSFORMER	⚠
T639	ETS49AC177AC	TRANSFORMER/EUROMOD	⚠
T6101	2982-021762	COIL	
T7001	ETE19K108AY	TRANSFORMER	
T7002	ETE19K109AY	TRANSFORMER	

FILTERS

X1424	10082044	
X1654	10080785	
X1656	10082031	
X1853	10080066	
X4701	EFCS5M7MW3	CERAMIC FILTER
X4704	G3258	CRYSTAL
X4836	EFCS5R5MS5	FILTER
X4837	EFCS5R5MS5	FILTER
X4841	EFCS5R74MS5A	FILTER
X4842	EFCS5R74MS5A	FILTER

COMPONENT DIFFERENCE LIST TX-25A3E COMPONENTS

CAPACITORS

C3131	ECKR2H472MD5	CERAMIC	500V	4700pF
C3136	ECKR2H472MD5	CERAMIC	500V	4700pF
C3371	ECUV1H150JCW	S.M.CAP	50V	15pF
C3377	ECUV1H222JCW	S.M.CAP	50V	2200pF
C3381	ECUV1H050CCW	S.M.CAP	50V	5pF
C3387	ECUV1H222JCW	S.M.CAP	50V	2200pF
C3391	ECUV1H050CCW	S.M.CAP	50V	5pF
C3397	ECUV1H222JCW	S.M.CAP	50V	2200pF
C534	ECKW3D152JBN	CERAMIC	2kV	1500pF
C537	ECQF6303JZH	FILM	630V	30nF
C538	ECWF2H374JNB	FILM	500V	370nF
C541	ECWF2H904JNB	FILM	500V	900nF
C650	ECKR3A102KBP	CERAMIC	1kV	1000pF

RESISTORS

R3108	ERJ8GCY102V	FILM	0.125W	1KΩ
R3113	ERJ8GCY152V	FILM	0.125W	1.5KΩ
R3121	ERJ8GCY273V	FILM	0.125W	27KΩ
R3128	ERQ14AJ820E	METAL	0.25W	82Ω
R3129	ERQ14AJ820E	METAL	0.25W	82Ω
R3146	ERDS1FYJ471T	CARBON	0.5W	470Ω
R3361	T3A206032	WIRE LINK		
R3363	ERC12GK821V	CARBON	0.5W	820Ω
R3374	ERDS1TJ913T	CARBON	0.5W	91KΩ
R3384	ERDS1TJ913T	CARBON	0.5W	91KΩ
R3387	ERJ8GCY562V	FILM	0.125W	5.6KΩ
R3394	ERDS1TJ913T	CARBON	0.5W	91KΩ
R549	ERO50PKF1403	METAL	0.5W	14KΩ
R577	EROS2TKFG1302	METAL	2W	13KΩ
R589	EROS2TKG3302	METAL	2W	33KΩ
R633	EROS2TKG1202	METAL	2W	12KΩ

COILS

L3361	ELC08D097	COIL
L541	ELH5L421	COIL

TRANSFORMERS

T531	TLF15566F	FLYBACK TRANSFORMER	⚠
T639	5454500200	CHOPPER TRANSFORMER	⚠